

EXECUJET STORAGE TANKS FOUNDATION

CYRIL E. KING AIRPORT

AIRPORT ROAD

CHARLOTTE AMALIE WEST, ST. THOMAS, USVI 00802

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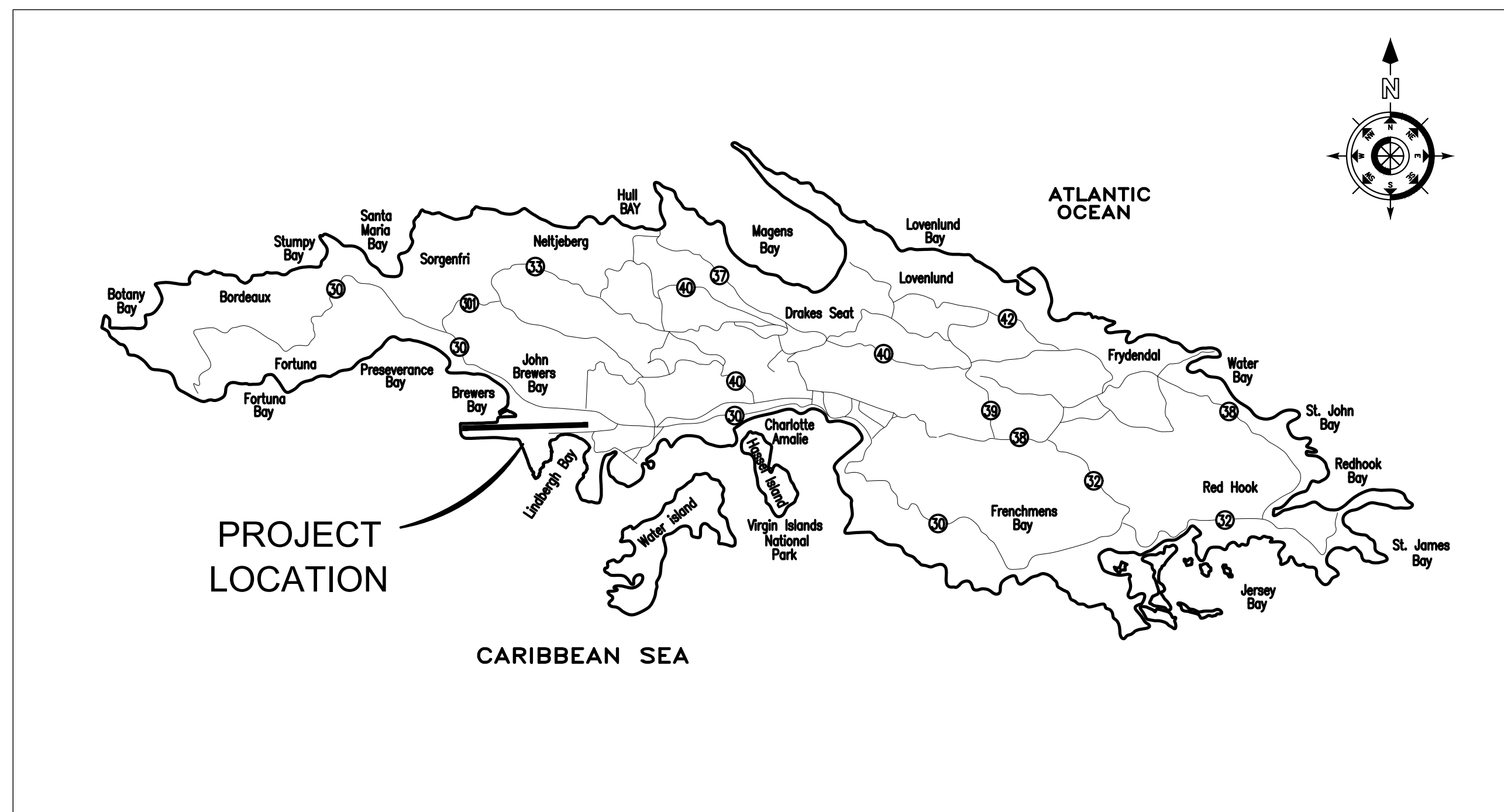
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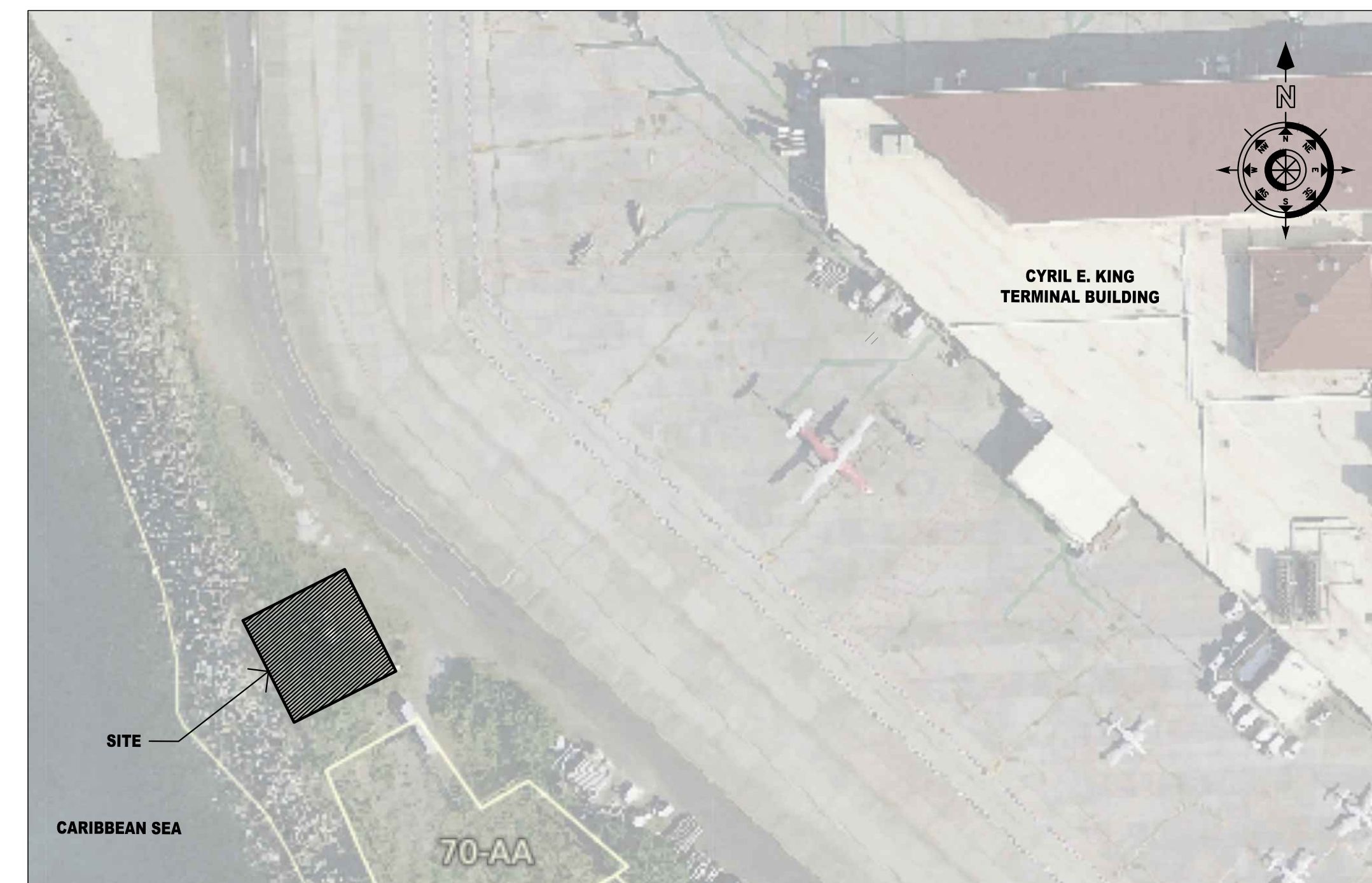
E7-05 LIGHTNING PROTECTION

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VICINITY MAP

NOT TO SCALE

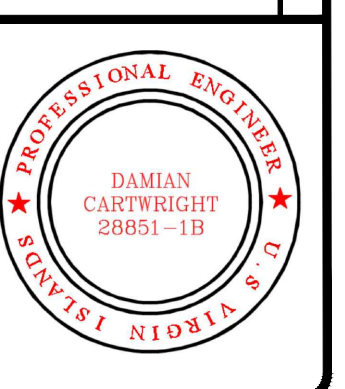


LOCATION MAP

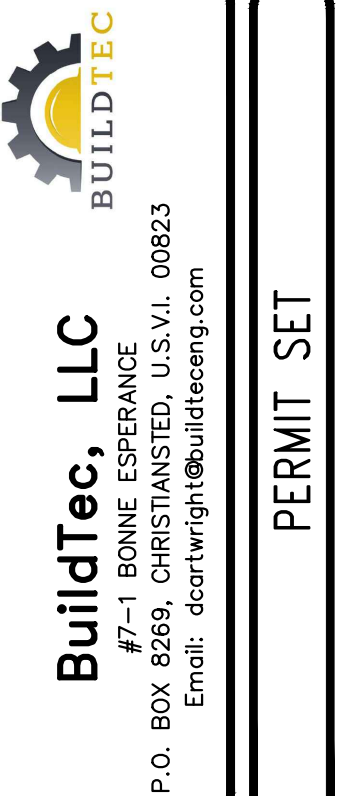
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	REFERENCE DRAWINGS
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COVER SHEET,
LOCATION MAP, & INDEX

EXECUCJET FUEL TERMINAL
TANKS FOUNDATION
CYRIL E. KING AIRPORT
CHARLOTTE AMALIE,
ST. THOMAS, USVI 00801



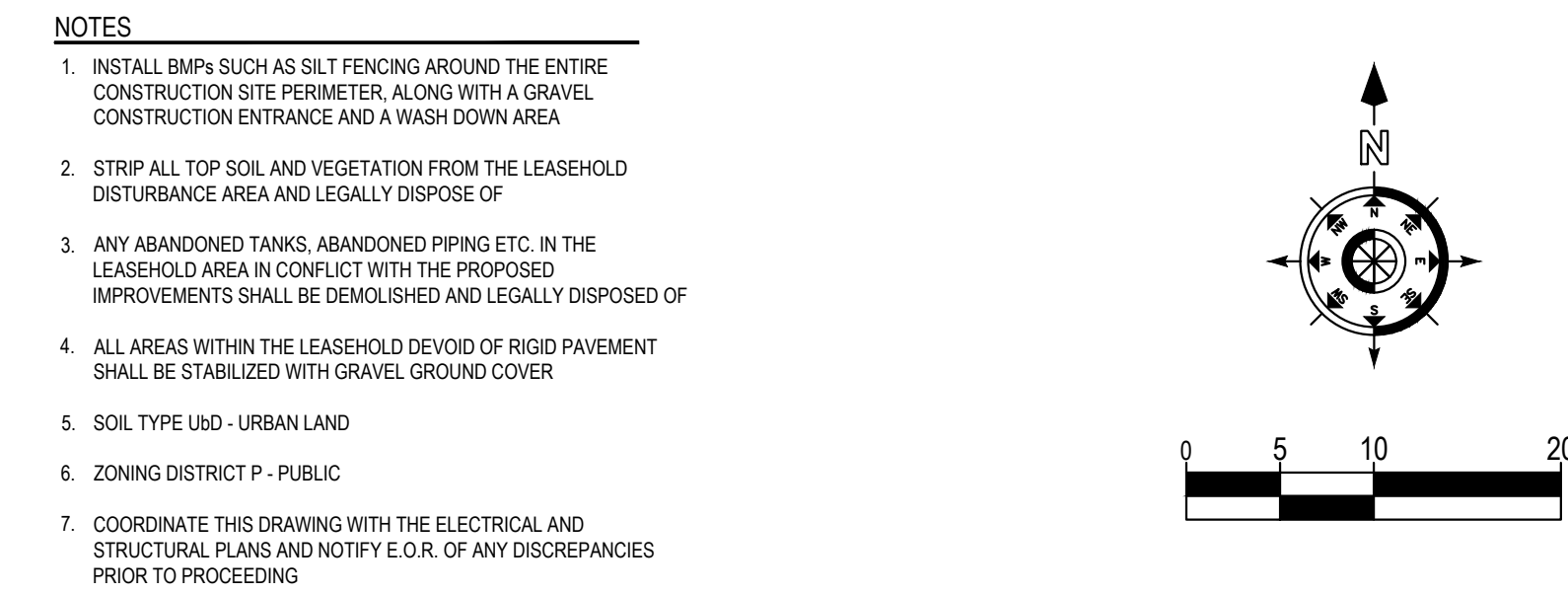
PERMIT SET

	BY	DATE
SGN	DC	11/02/25
RAWN	DC	11/02/25
HK'D	DC	11/02/25
PPR.	DC	11/02/25
PROJECT NO.		

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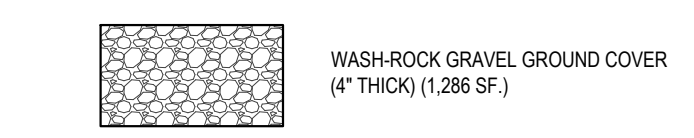
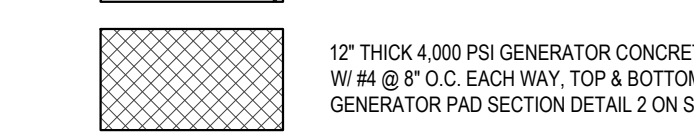
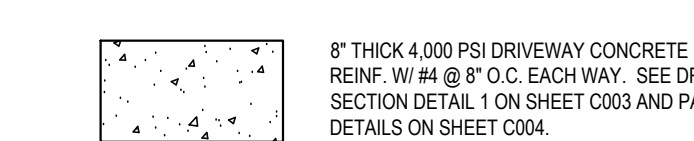
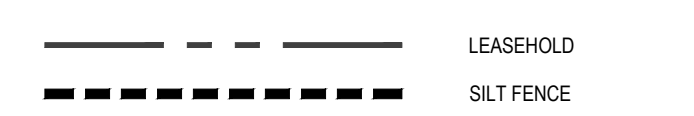
C001

SHEET 1 OF 24

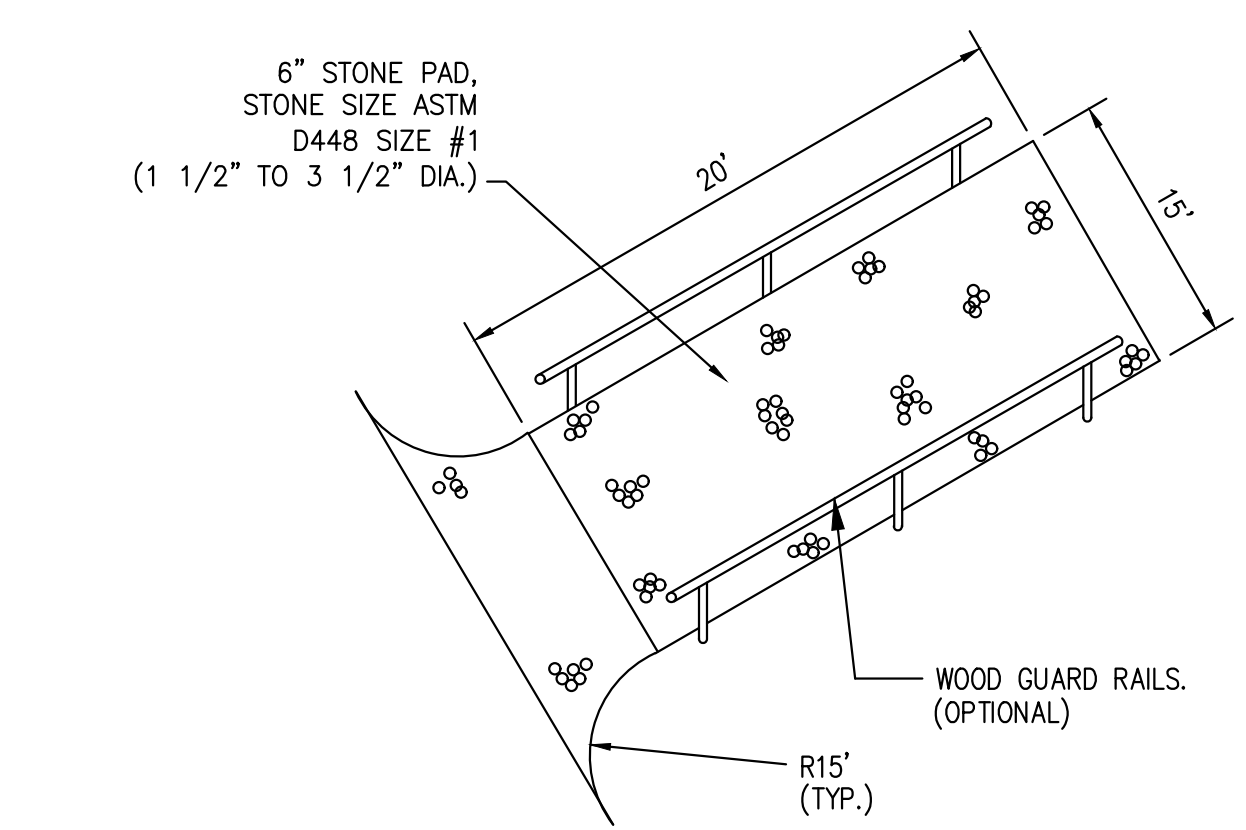


- ## NOTES
1. INSTALL BMPs SUCH AS SILT FENCING AROUND THE ENTIRE CONSTRUCTION SITE PERIMETER, ALONG WITH A GRAVEL CONSTRUCTION ENTRANCE AND A WASH DOWN AREA
 2. STRIP ALL TOP SOIL AND VEGETATION FROM THE LEASEHOLD DISTURBANCE AREA AND LEGALLY DISPOSE OF
 3. ANY ABANDONED TANKS, ABANDONED PIPING ETC. IN THE LEASEHOLD AREA IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE DEMOLISHED AND LEGALLY DISPOSED OF
 4. ALL AREAS WITHIN THE LEASEHOLD DEVOID OF RIGID PAVEMENT SHALL BE STABILIZED WITH GRAVEL GROUND COVER
 5. SOIL TYPE UDB - URBAN LAND
 6. ZONING DISTRICT P - PUBLIC
 7. COORDINATE THIS DRAWING WITH THE ELECTRICAL AND STRUCTURAL PLANS AND NOTIFY E.O.R. OF ANY DISCREPANCIES PRIOR TO PROCEEDING

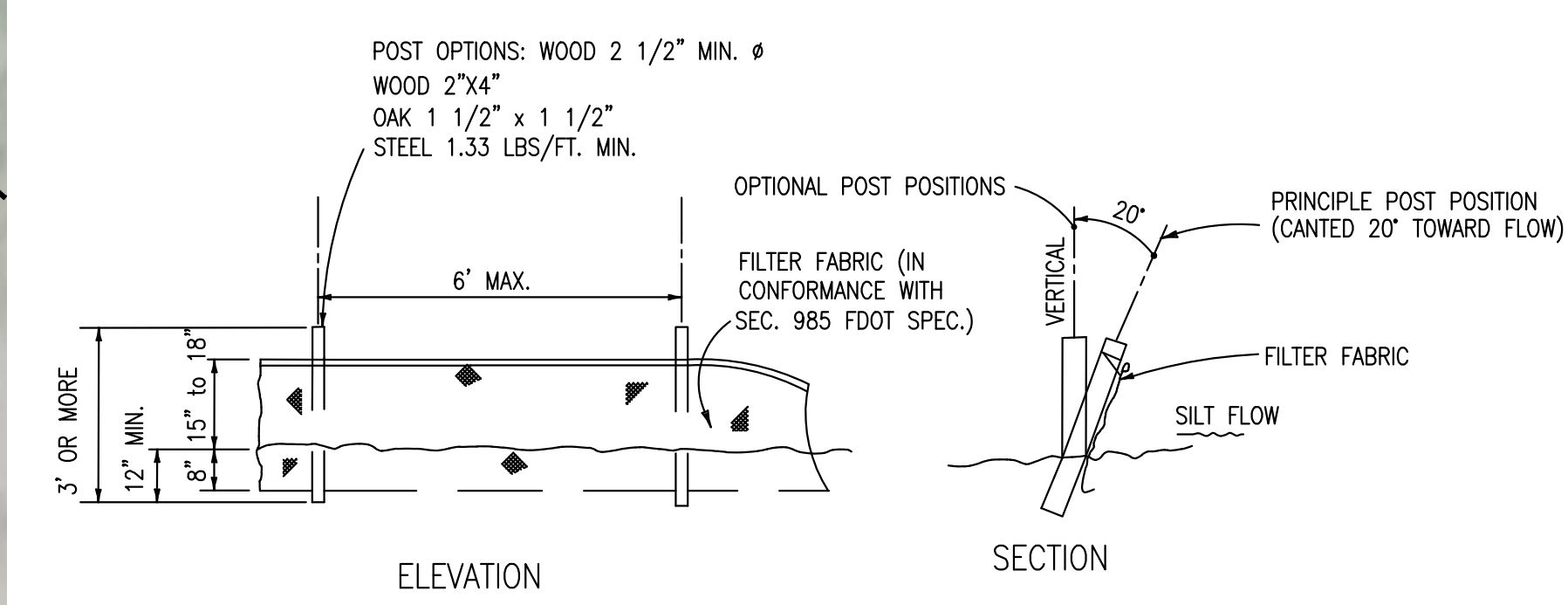
LEGEND



1. 8FT. TALL CHAIN LINK FENCING WITH 3 ST.
SEE REFERENCE DETAILS ON SHEET C005.
SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. 18 FT. LONG X 8FT. TALL METAL ROLLING STRAND BARR WIRE. SEE TRACK FOUNDATION SHEET C003 AND REFERENCE DETAILS. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR APPROVAL.
3. ROLLING GATE CONCRETE PAD. SEE DET C005 FOR PAD GEOMETRY.
4. 2" Ø PVC PIPE INSTALLED IN CURB ON TOP 2' TO THE OUTSIDE AND INSTALL A 2" GAPE AT THE BACK OF CURB.
5. 20 FT. LONG X 8FT. TALL DOUBLE LEAF STRAND BARR WIRE. SEE REFERENCE DET C005. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR APPROVAL.



CONSTRUCTION ENTRANCE

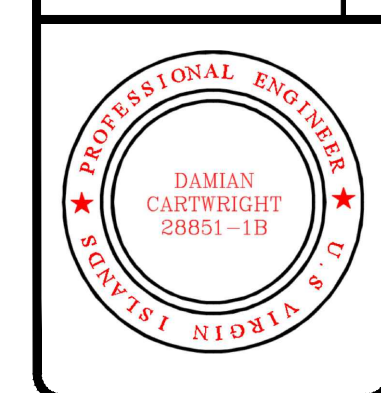


NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

TYPE III SILT FENCE

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	REFERENCE DRAWINGS
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SITE AND GEOMETRY PLAN

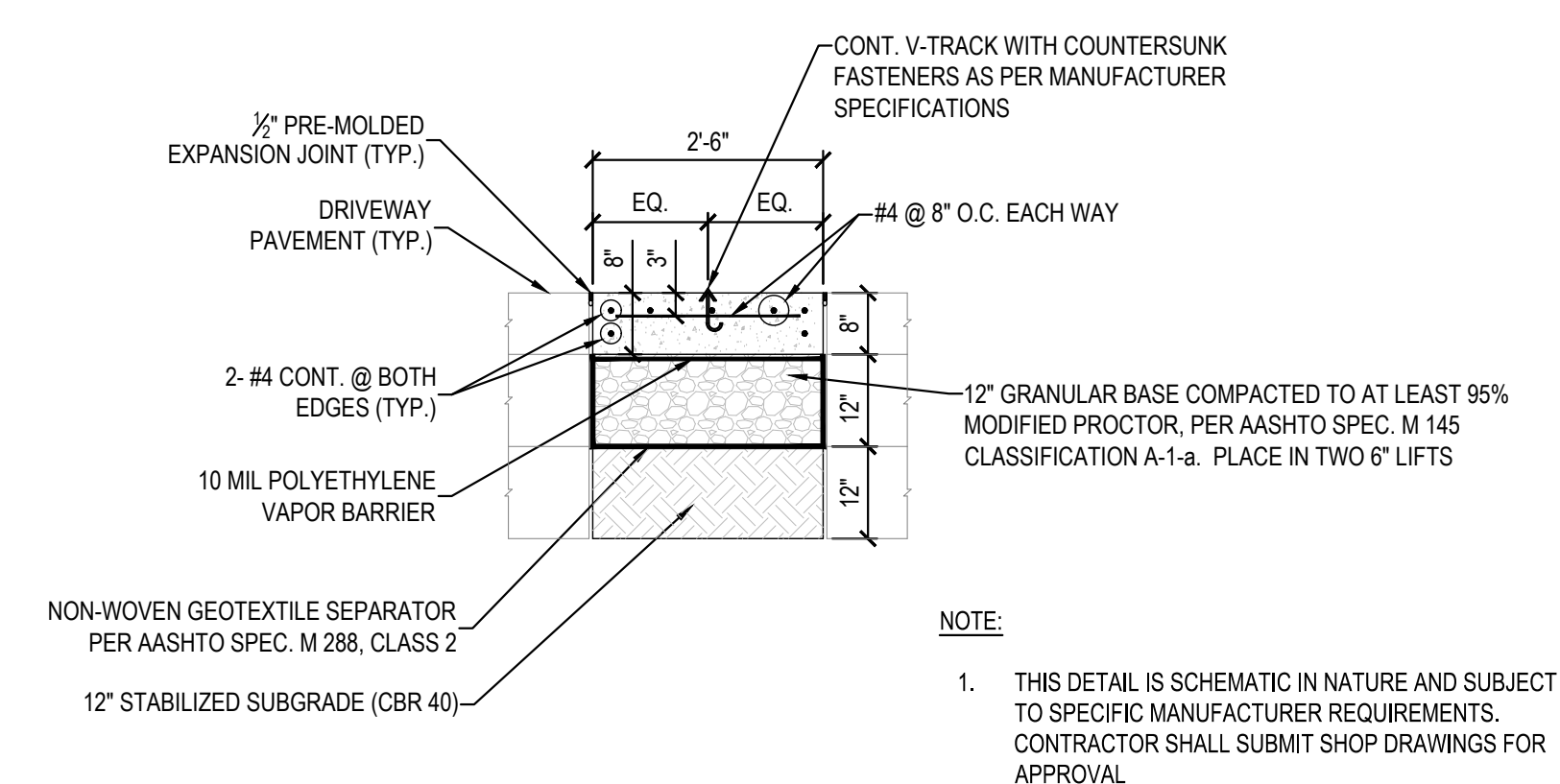
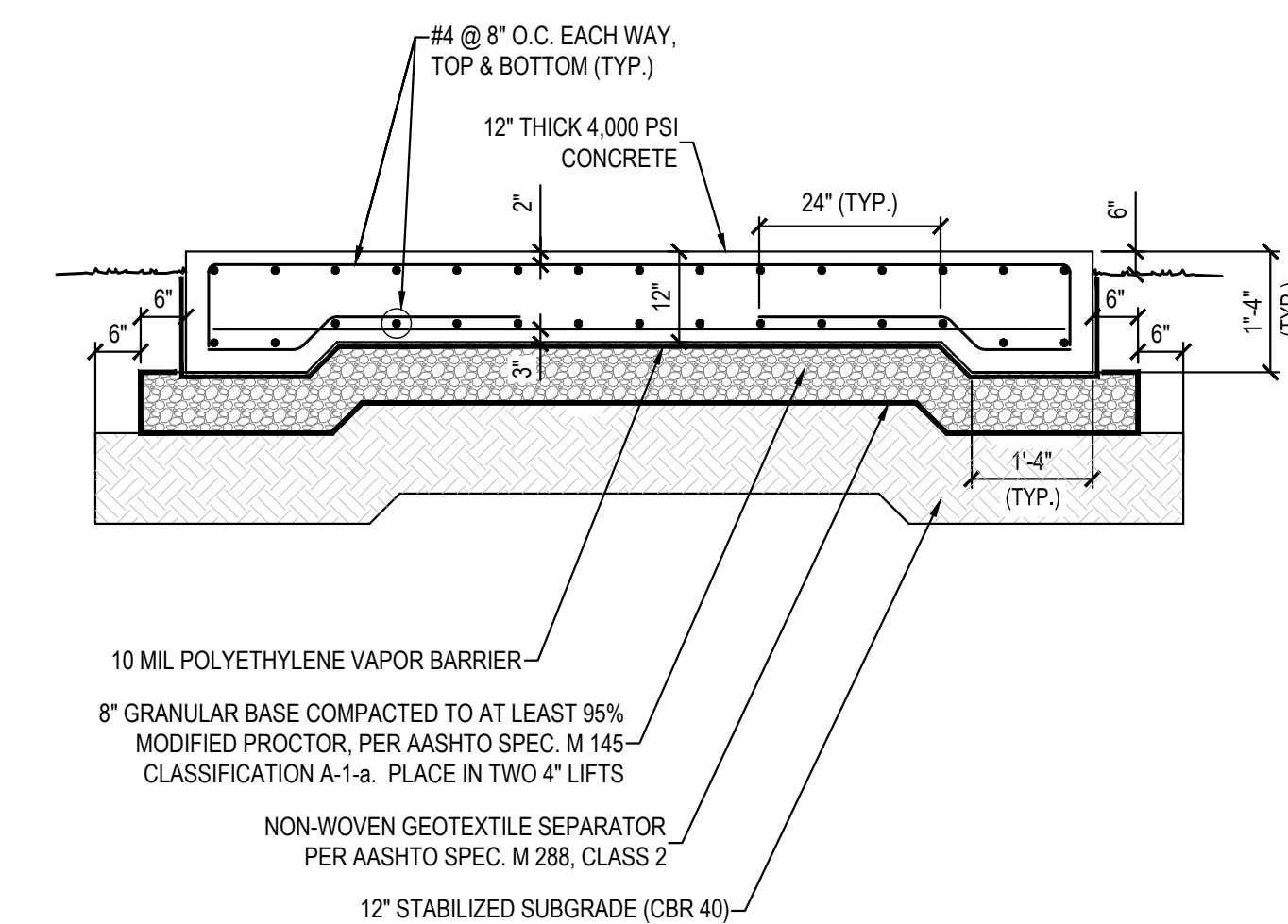
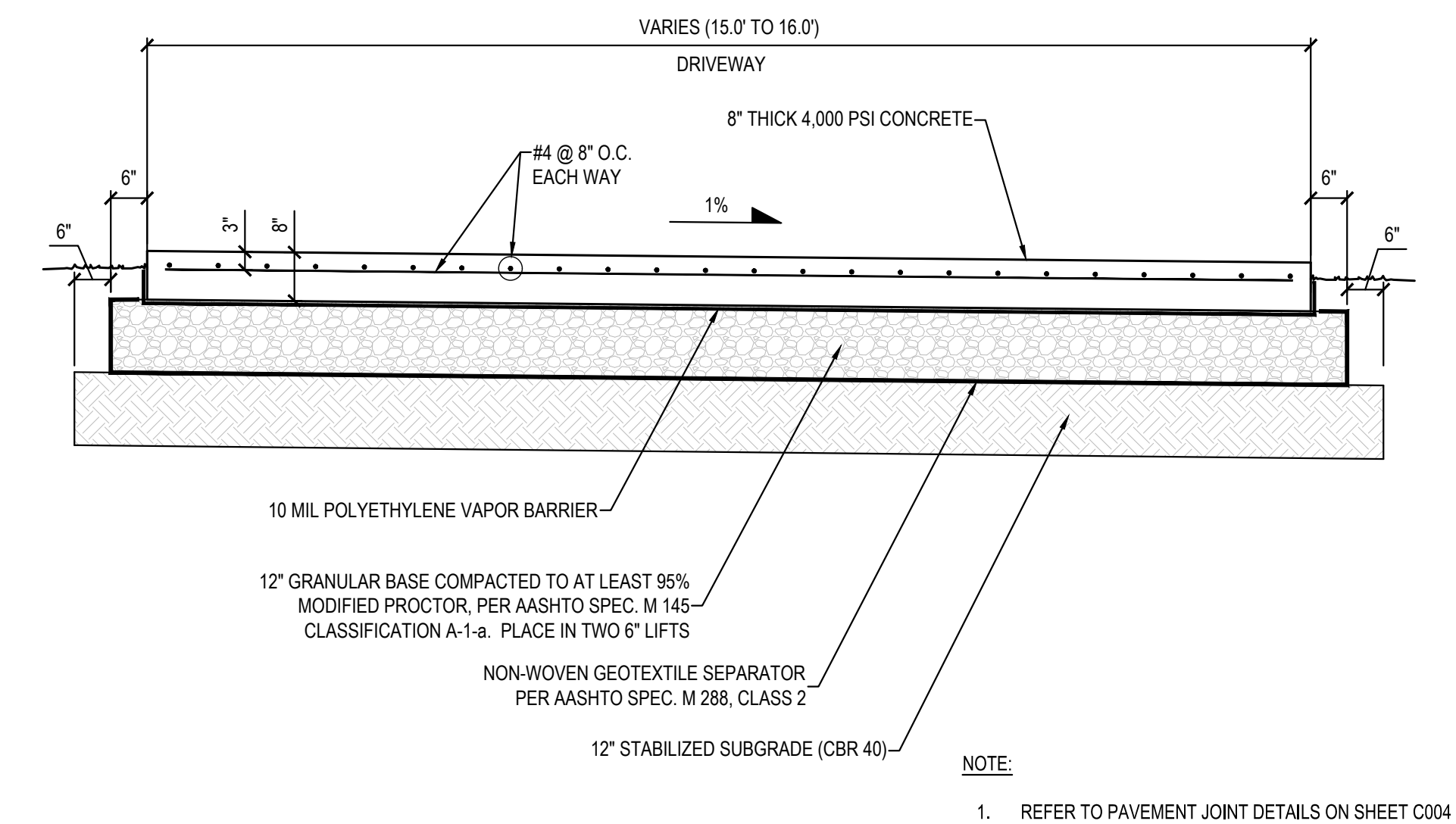
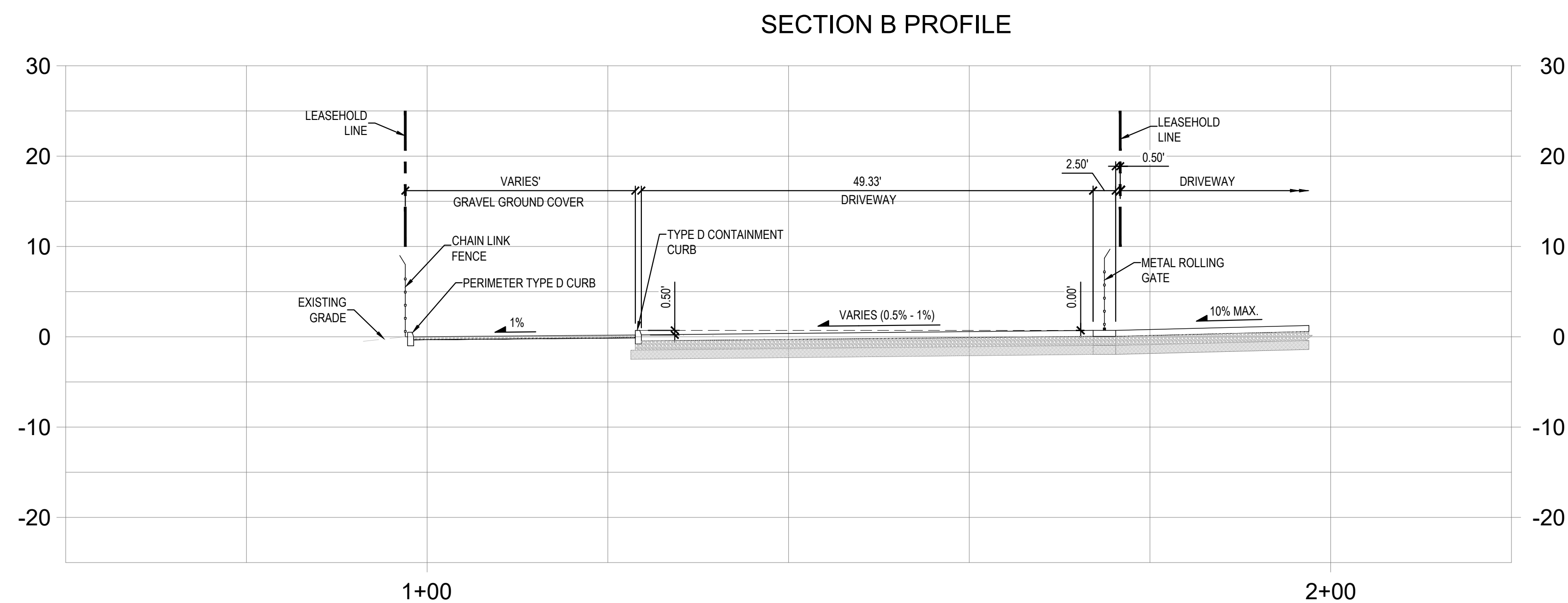
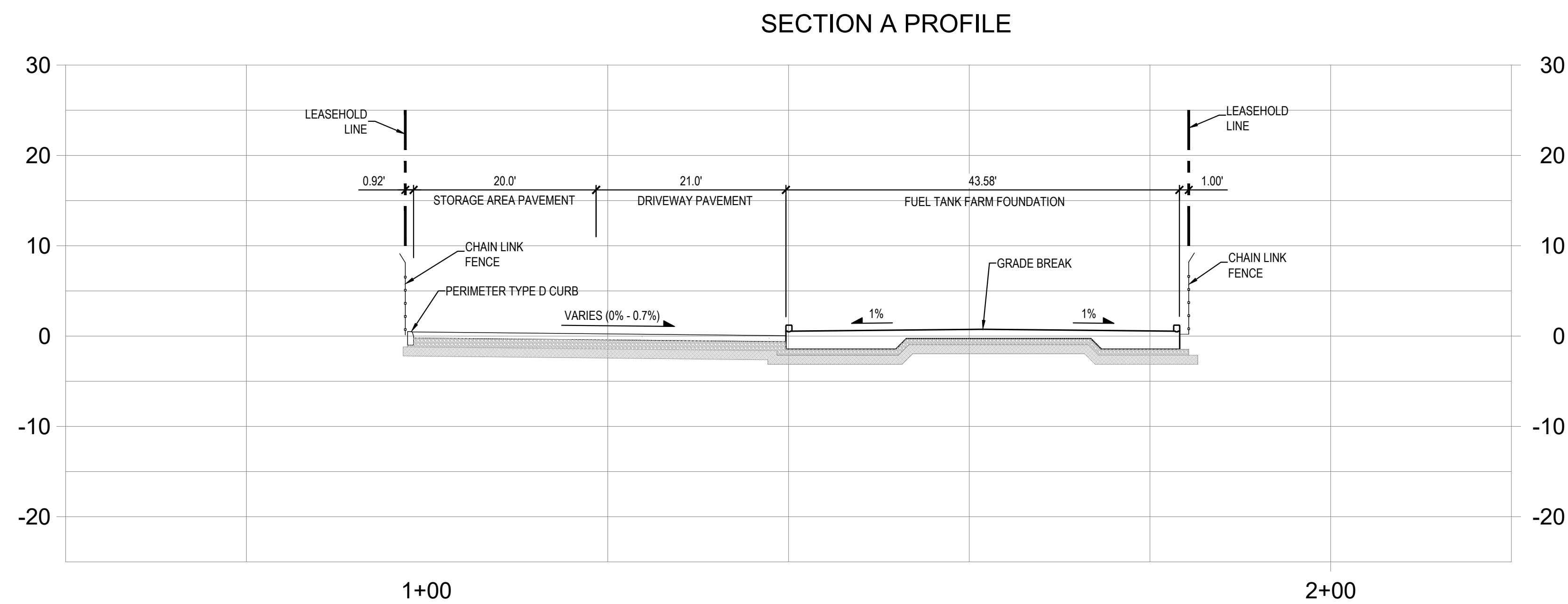
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CYRIL E. KING AIRPORT
CHARLOTTE AMALIE,
ST. THOMAS, USVI 00801



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	BY	DATE
DSGN	DC	11/11/25
DRAWN	DC	11/11/25
CHK'D	DC	11/11/25
APPR.	DC	11/11/25
PROJECT NO.		

SCALE
C002
SHEET 2 OF 24

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SECTION PROFILES AND DETAILS

EXECUJET FUEL TERMINAL
TANKS FOUNDATION
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	BY	DATE
SGN	DC	11/11/25
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PROJECT NO.		

SCALE

C003

SHEET 3 OF 24

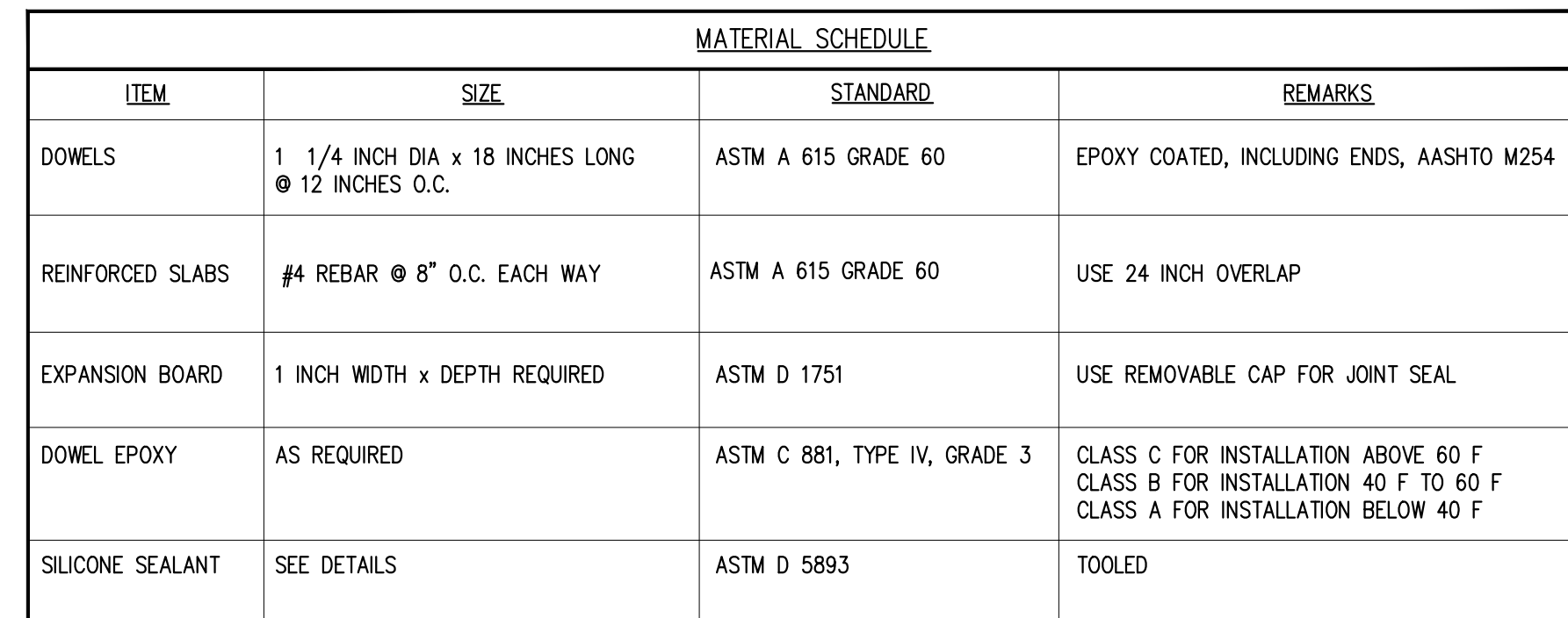


- ### DOWEL AND TIE BAR NOTES

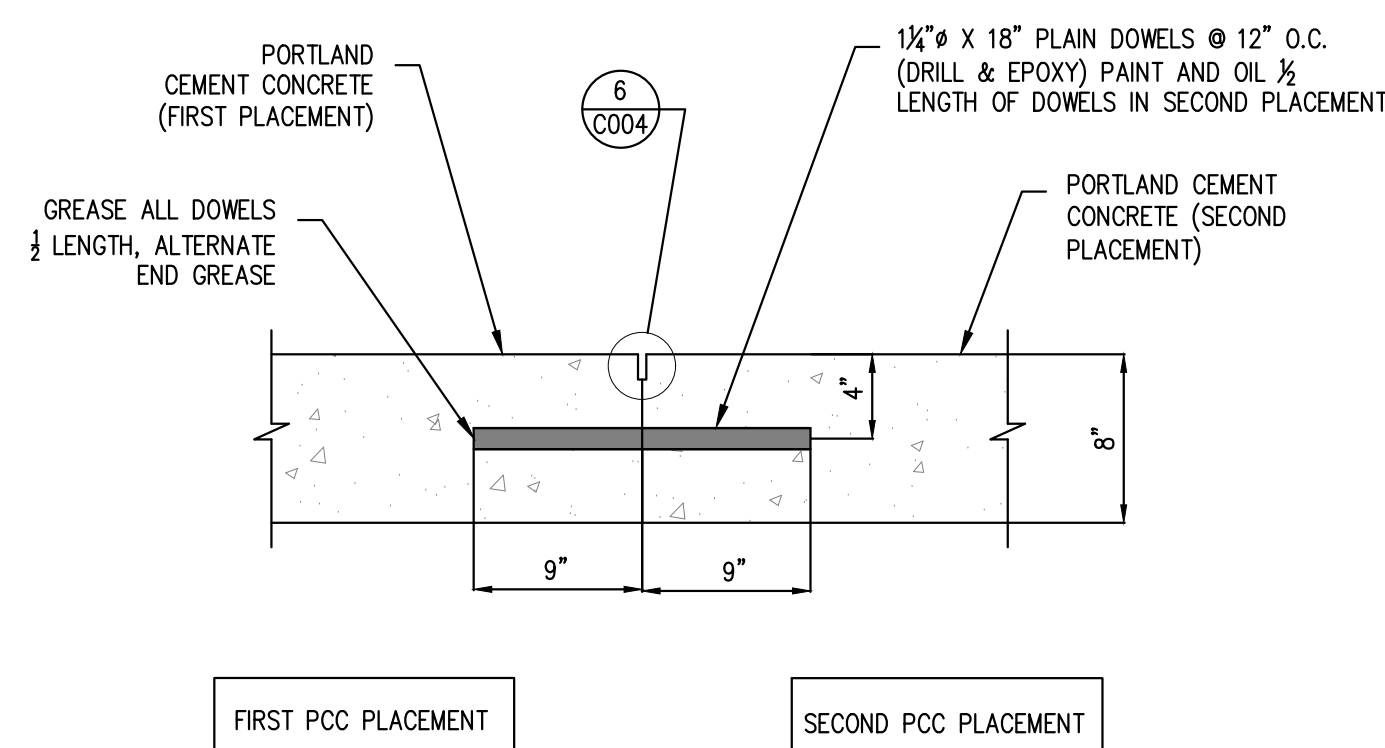
6. "d" = DOWEL OR TIE-BAR DIAMETER

LEGEND

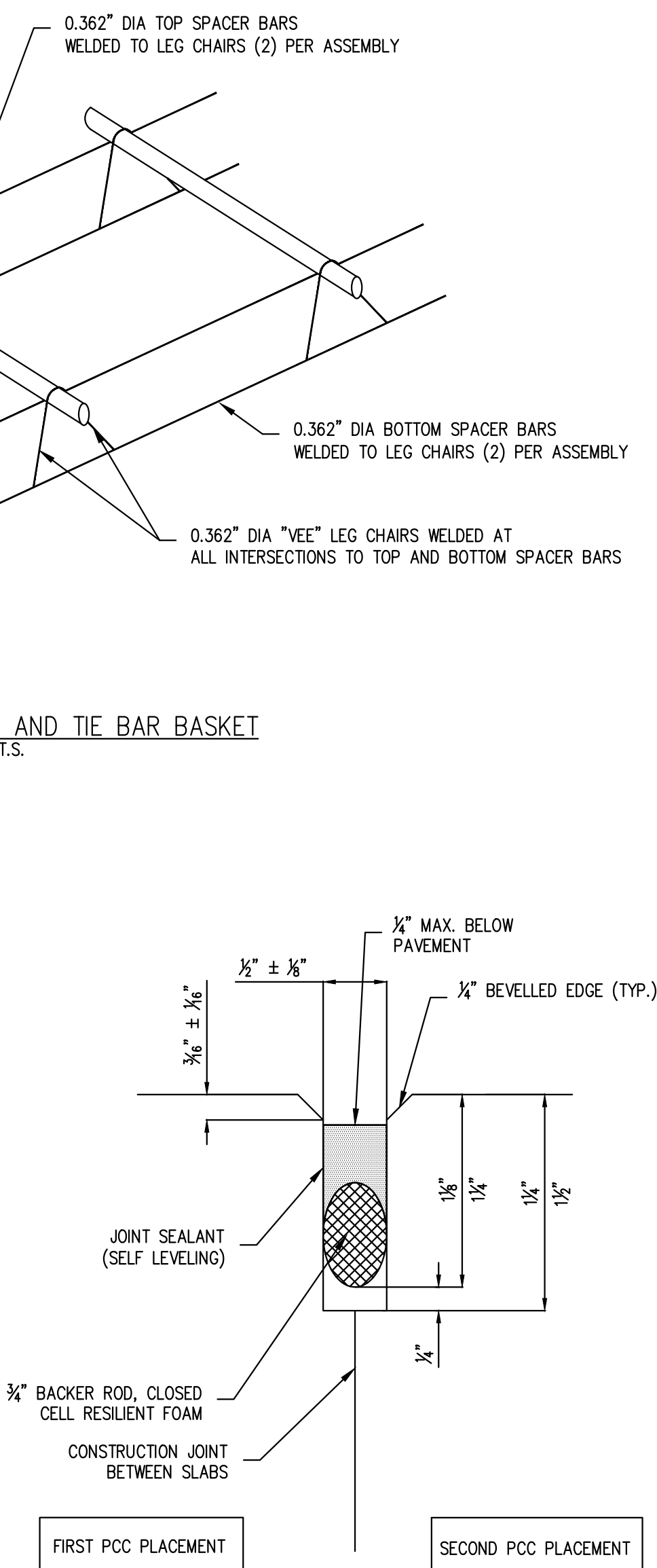
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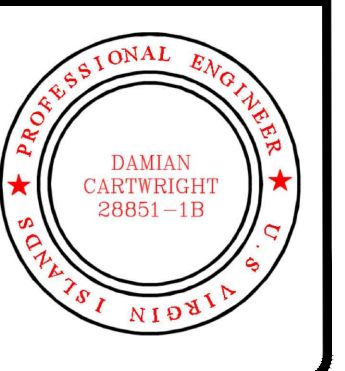
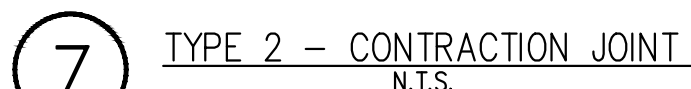
2) REINFORCED CONCRETE PAVEMENT SECTION
N.T.S.



④ TYPE 1 - CONTRACTION JOINT (DOWELED)
N.T.S.



⑥ TYPE 1 - CONTRACTION JOINT
N.T.S.



PAVEMENT DETAILS

EXECUTIVE FUEL TERMINAL
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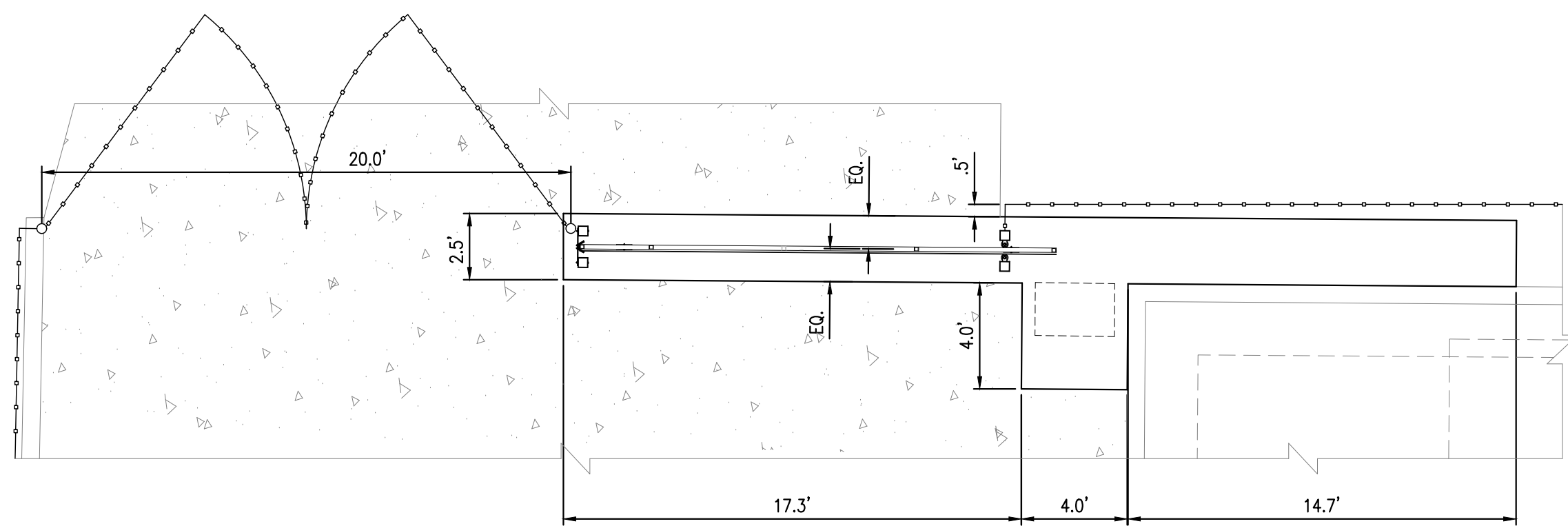
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CALE

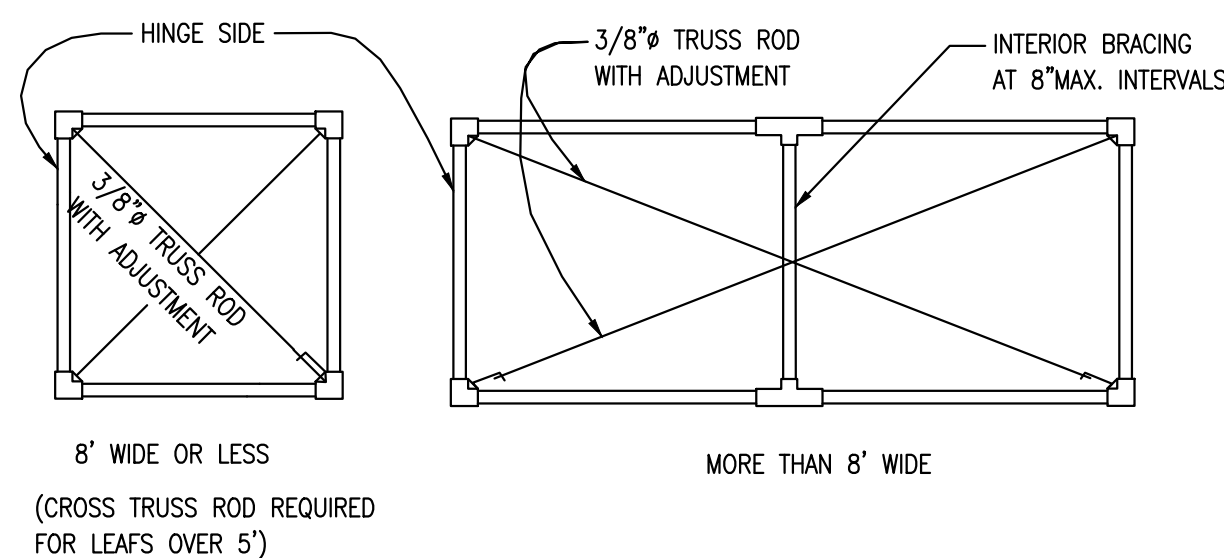
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SHEET 4 OF 24

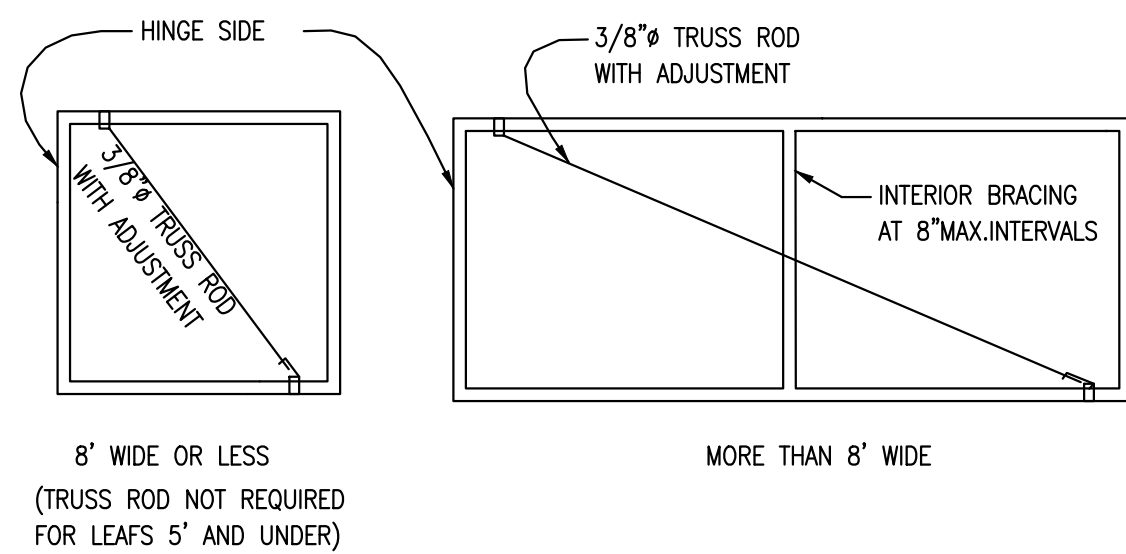


12 ROLLING GATE CONCRETE PAD GEOMETRY N.T.S.

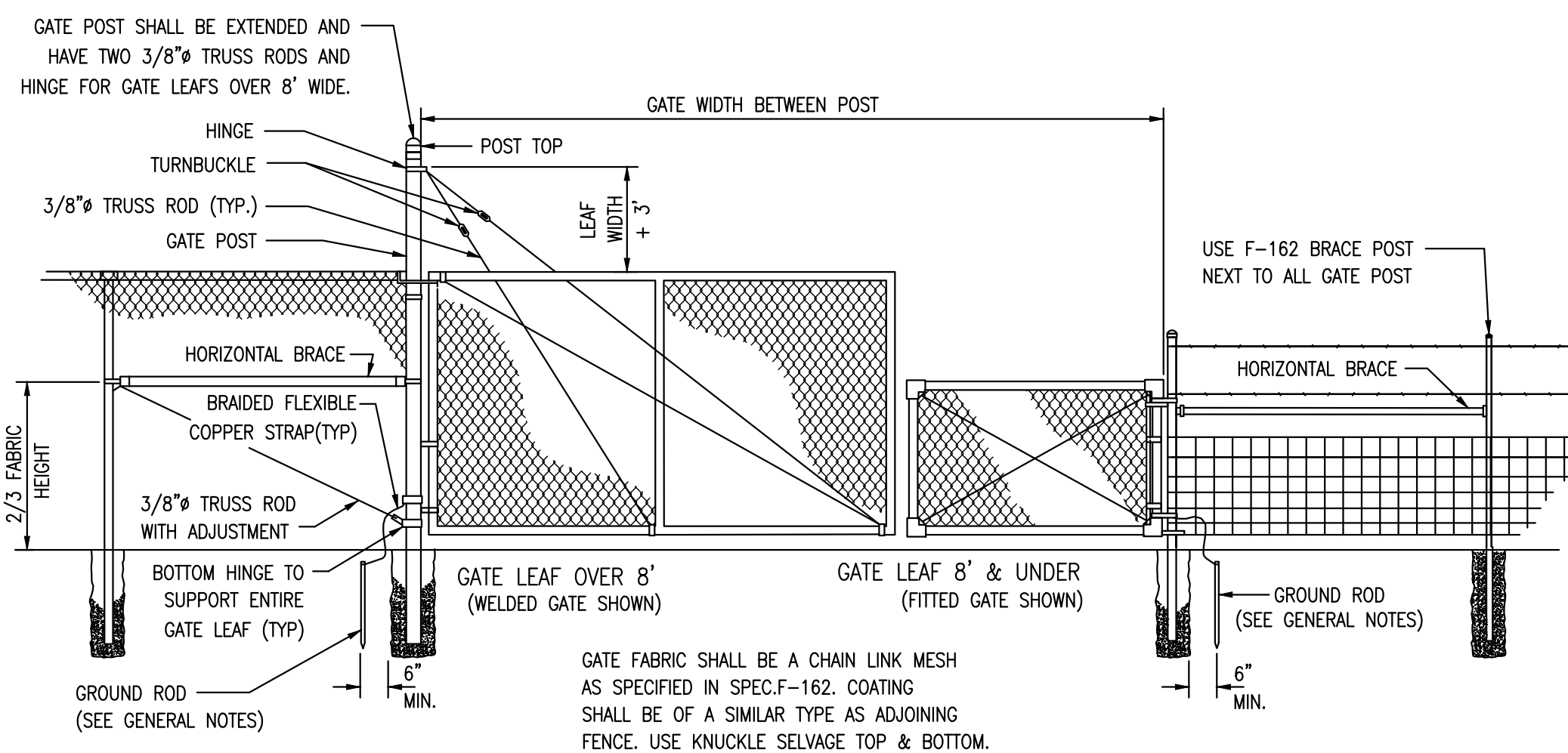
OVERALL POST HEIGHTS VARY WITH
POST TOP DESIGN OF MANUFACTURER



FITTED CONNECTIONS



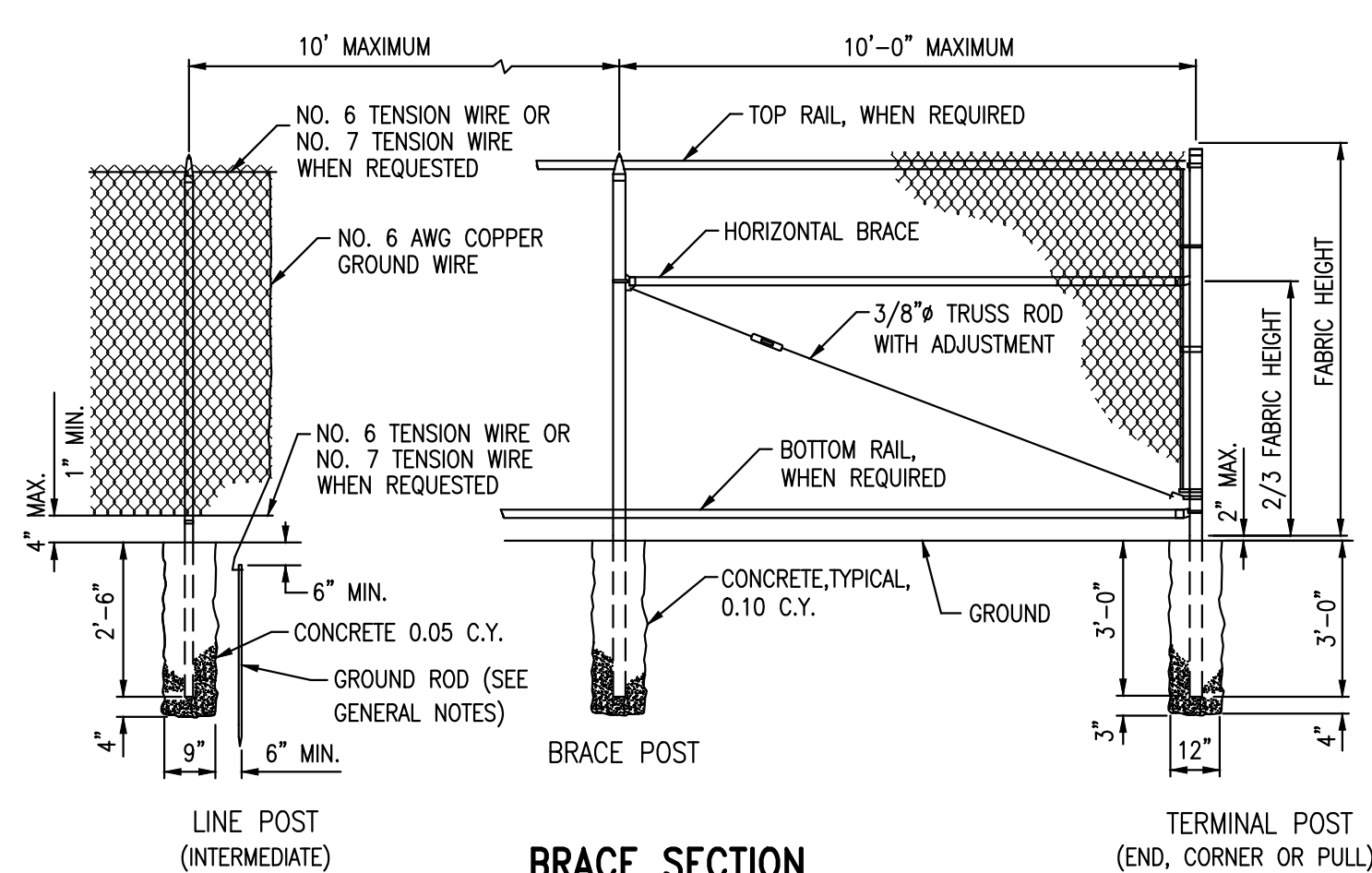
WELDED CONNECTIONS GATE FRAMES



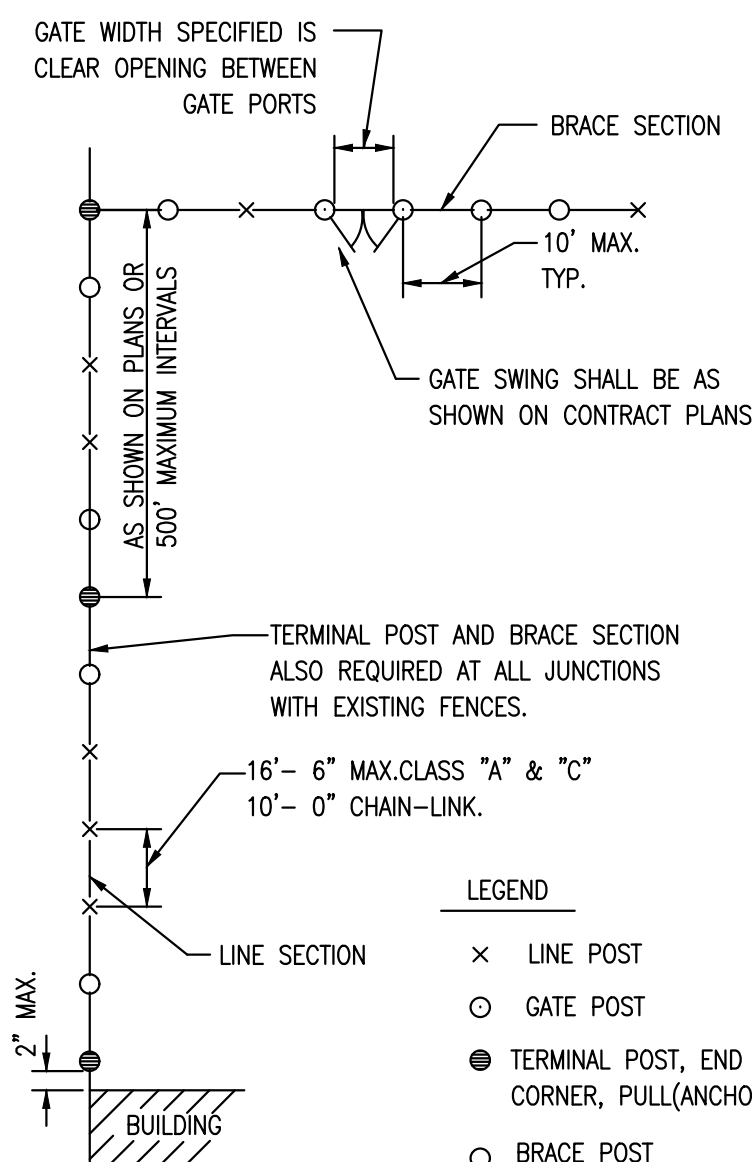
GATE NOTES

- GATE HINGES AND FITTINGS SHALL BE HEAVY PATTERN AND EASILY OPERATED BY ONE PERSON. BOTTOM HINGE SHALL BE BALL AND SOCKET, OR EQUAL, AND CAPABLE OF SUPPORTING ENTIRE WEIGHT OF GATE LEAF.
- GATE LEAFS SHALL BE INSTALLED AS DETAILED ON THE CONTRACT PLANS
- WELDS ON STEEL FRAMES SHALL BE GROUND SMOOTH THOROUGHLY CLEANED AND COVERED WITH ALUMINUM OR ZINC BASE PAINT.
- GATES AND FITTINGS SHALL MEET FAA SPEC. F-162
- INSTALLATION SHALL MEET FAA SPEC. F-162
- WHEN BARBED WIRE EXTENSION ARMS ARE SPECIFIED FOR FENCE. THE GATE POSTS SHALL BE EXTENDED 12" MINIMUM ABOVE THE TOP OF THE FENCE FABRIC FOR TERMINATING THE BARBED WIRE.

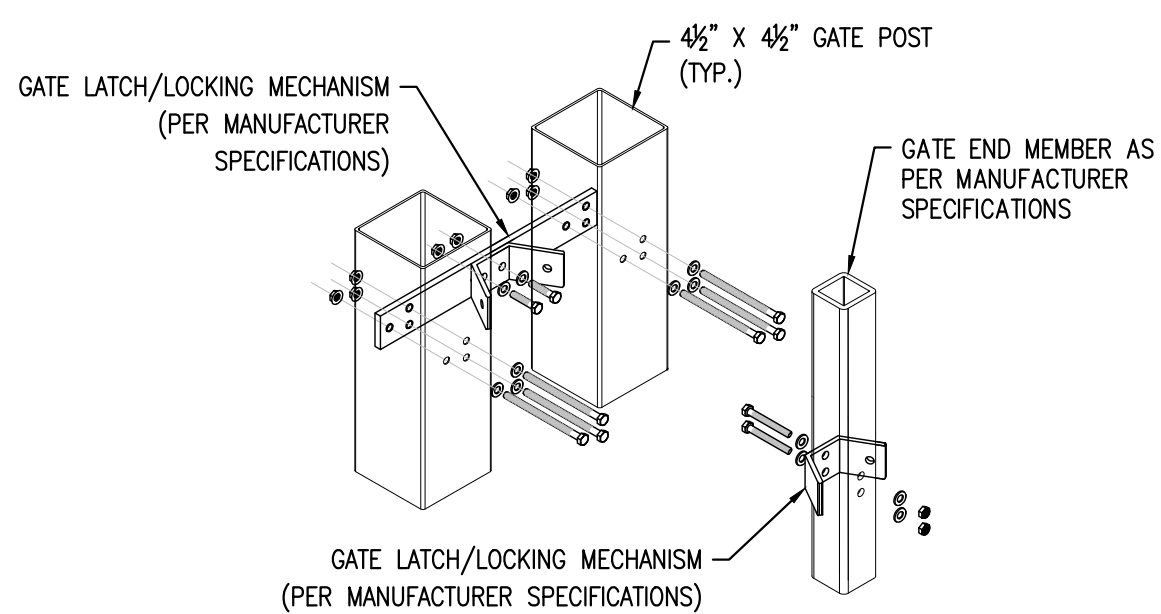
GATE DETAILS AND SPECIFICATIONS - CHAIN LINK, FAA SPEC. F-162



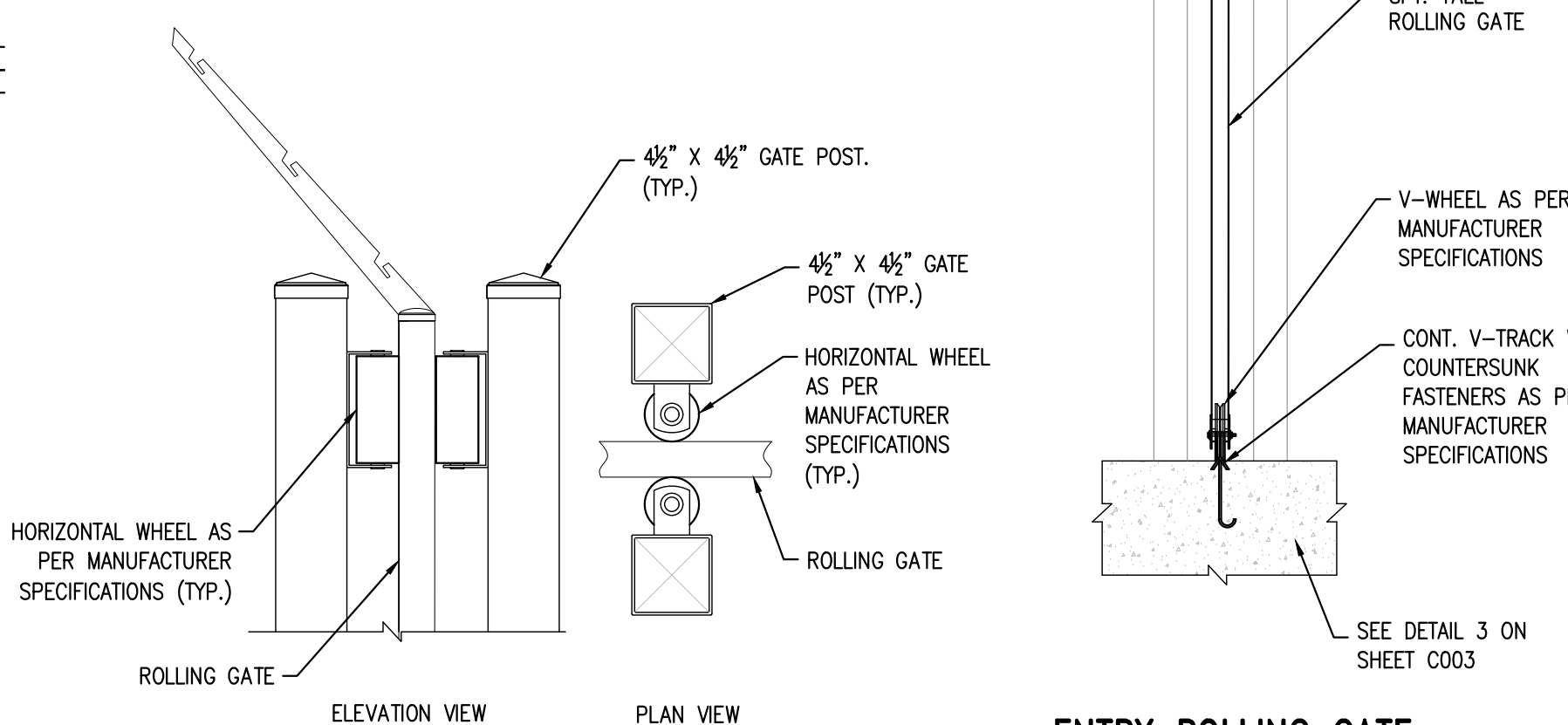
BRACE SECTION



TYPICAL FENCE LAYOUT ALL CLASSES



DETAIL - ENTRY ROLLING GATE

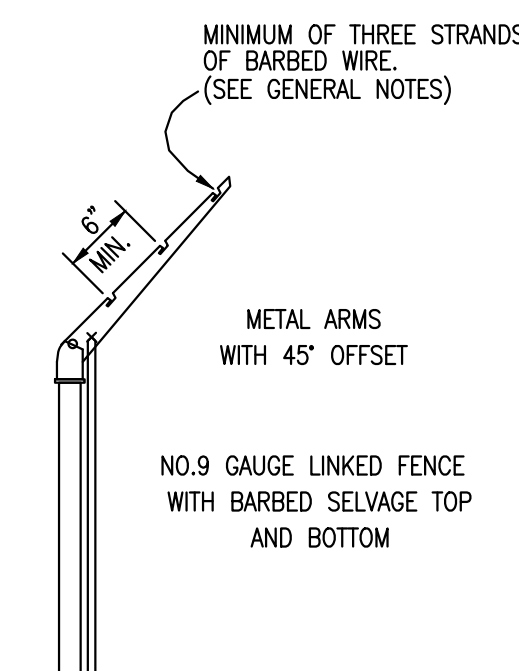


ENTRY ROLLING GATE

GATE FRAME DIMENSIONS & WEIGHTS (FED. SPEC. RR-F - 191)					
DESCRIPTION	SECTION	STEEL FRAME		ALUMINUM FRAME #	
		OUTER DIMENSION (INCHES)	WEIGHT (LB./FT.)	OUTER DIMENSION (INCHES)	WEIGHT
FABRIC HEIGHT 6' & LESS & LEAF WIDTH 8' OR LESS	○	1.66	2.27	1.90	0.94
	□	1.50	1.90	2.00	0.94
FABRIC HEIGHT OVER 6' AND/OR ALL LEAF WIDTHS OVER 8'	○	1.90	2.72	1.90	0.94
	□	2.00	2.60	2.00	0.94
INTERIOR BRACING	○	1.66	2.27	1.90	0.94
	□	1.50	1.90	2.00	0.94

SEE FAA SPEC. F-162 FOR DETAILS TO BE USED ONLY WITH ALUMINUM FENCE

WHEN BARBED WIRE TOP IS SPECIFIED, THE GATE FRAME END MEMBERS SHALL BE EXTENDED 12" MINIMUM ABOVE TOP HORIZONTAL MEMBER TO ATTACH THREE UNIFORMLY SPACED WIRES. SPACE ADDITIONAL SUPPORTS AT 8' MAXIMUM.



TYPE NO. 1

FENCE POST SHALL BE SET BACK SO BARBED WIRE DOES NOT EXTEND OVER PROPERTY LINES. TYPE NO. 1 ARMS SHALL BE INSTALLED ON SIDE AWAY FROM AIRPORT PROPERTY OR AIRCRAFT OPERATIONS AREA.

BARBED WIRE EXTENSION ARMS

NOTES : F-162 CHAIN LINK FENCE

- FABRIC: 2"x2" NO.9 GAUGE WIRE MESH PER ASTM A392, CLASS II (GALVANIZED); ASTM A491 (ALUMINUM COATED); ASTM B112, ALLOY 6061-T94 (ALUMINUM COATED); FED. SPEC. RR-F-191/1 (POLYVINYL-CHLORIDE COATED); UNLESS OTHERWISE SPECIFIED ON CONTRACT PLANS.
- SELVAGE, RAILS & TENSION WIRES: FENCES 60" AND UNDER IN TERMINAL AREAS SHALL HAVE KNUCKLE SELVAGE AND RAILS TOP AND BOTTOM. HAZARDOUS AND SECURITY AREAS TO BE FENCED SHALL HAVE BARBED SELVAGE TOP AND BOTTOM WITHOUT RAILS. WHEN RAILS ARE OMITTED, NO.7 GAUGE STEEL OR NO.6 GAUGE ALUMINUM TENSION WIRES SHALL BE PROVIDED. IF RAILS AND BARBED SELVAGE ARE SPECIFIED THE BARBS SHALL EXTEND 1" ABOVE THE TOP RAIL.
- POSTS: SEE TABLE AT LEFT.
- FABRIC FASTENERS: MINIMUM 3/16"x3/4" STRETCHER BAR BANDED TO TERMINAL POSTS, OR INTEGRAL FABRIC FITTINGS ON TERMINAL POSTS. USE NO.6 WIRE CLIPS FOR LINE POSTS AND NO.9 WIRE CLIPS FOR BRACES, RAILS AND TENSION WIRES. ALL FASTENERS SPACED 14" MAX. VERTICALLY, 24" MAX. HORIZONTALLY.
- COATINGS : ZINC COATINGS ON POSTS, RAILS, GATE FRAMES AND STEEL FITTINGS SHALL AVERAGE 2.0 OZ./sq. FT. PER ASTM A123. NO INDIVIDUAL SPECIMEN SHALL HAVE LESS THAN 1.8 OZ./S.F. IF OTHER TYPES OF COATINGS ARE FURNISHED, THEY SHALL MEET THE APPROPRIATE ASTM OR FEDERAL SPECIFICATION IN NOTE 1.
- FENCE HEIGHT : THE FABRIC HEIGHT IS THE NORMAL FENCE HEIGHT.

CHAIN LINK FENCE MEMBERS DIMENSIONS & WEIGHTS (FED. SPEC. RR-F-00191)					
DESCRIPTION	SECTION	STEEL FRAME		ALUMINUM FRAME #	
		OUTSIDE DIMENSIONS (INCHES)	WEIGHT (LBS./FT.)	OUTSIDE DIMENSIONS (INCHES)	WEIGHT (LBS./FT.)
CORNER, BRACE, END. & PULL POSTS	○	2.375	3.65	2.875	1.264
FABRIC HEIGHTS 6' & LESS	○	2.00	3.65	2.50	1.253
FABRIC HEIGHTS OVER 6'	○	2.875	5.79	2.875	2.00
	□	2.50	5.70	3.00	2.00
ALL HEIGHTS	ROLL FORM	3.5 x 3.5	5.10		
GATE POSTS	○	2.875	5.79	2.875	2.00
GATE LEAF WIDTH 6' AND LESS	○	2.50	5.70	3.00	2.00
	ROLL FORM	3.5 x 3.5	5.10		
GATE LEAF WIDTH OVER 6' THRU 13'	○	4.00	9.10	4.00	3.00
GATE LEAF WIDTH OVER 13' THRU 18'	○	6.625	18.97	6.625	7.00
GATE LEAF WIDTH OVER 18' THRU 23'	○	8.625	24.70	8.625	10.50
LINE POSTS	○	1.90	2.72	1.90	0.94
FABRIC HEIGHTS 6' & LESS	○	2.375	3.65	2.375	1.25
FABRIC HEIGHTS OVER 6'	○	1.875x1.625 ±0.113	2.70	1.875x1.625 ±0.113	0.91
FABRIC HEIGHTS 8' AND LESS	□	2.25x1.95 ±0.143	4.10	2.25x1.95 ±0.143	1.25
FABRIC HEIGHTS OVER 8'	□	1.660	1.806	1.660	0.786
RAILS & BRACES	ROLL FORM	1.625x1.250	1.35		

TO BE USED ONLY IF ALUMINUM ALLOY FABRIC IS SPECIFIED ON THE CONTRACT PLANS

CHAIN LINK FENCE, CLASS E, FAA SPEC. F-162

GENERAL NOTES

- DIMENSIONS:** ALL DIMENSIONS, SIZES, GAUGES, WEIGHTS OR THICKNESSES SHOWN ARE THE MINIMUM ACCEPTABLE, UNLESS OTHERWISE INDICATED
- SPECIFICATIONS:** THE FEDERAL SPECIFICATIONS SHOWN SHALL BE INTERPRETED TO MEAN THE LATEST ISSUE OR AMENDMENT OF SUCH SPECIFICATION, IN EFFECT OF THE DATE OF PLAN APPROVAL.
FAA SPECIFICATIONS SHOWN ARE FROM THE FEDERAL AVIATION ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS
MATERIALS AND CONSTRUCTION METHODS NOT DETAILED HEREON, SHALL BE IN ACCORDANCE WITH THE FAA SPECIFICATION LISTED, UNLESS OTHERWISE NOTED ON CONTRACT PLANS.
- MEASUREMENT:** FENCES ARE MEASURED IN PLACE, FROM OUTSIDE TO OUTSIDE OF END CORNER OR GATE POSTS. MEASUREMENT DOES NOT INCLUDE GATE OPENINGS.
GATES ARE MEASURED IN UNITS FOR EACH TYPE AND SIZE INSTALLED.
- FABRIC INSTALLATION:** WIRE OR FABRIC ON BOUNDARY AND SECURITY FENCES SHALL BE ON THE SIDE OF POSTS AWAY FROM AIRPORT PROPERTY.
FENCES BETWEEN TERMINAL BUILDINGS AND APRONS, OR ADJACENT TO SIDEWALKS, SHALL HAVE FABRIC ON THE BUILDING OR SIDEWALK, SIDE OF POSTS. ALL OTHER BUILDING AREA FENCES SHALL HAVE FABRIC ON SIDE OF POSTS AWAY FROM BUILDINGS OR INSTALLATION BEING FENCED, UNLESS OTHERWISE NOTED.
- BARBED WIRE:** BARBED WIRE SHALL BE ZINC COATED, MEETING ASTM A121, CLASS 3, OR ALUMINUM COATED MEETING ASTM A585, CLASS 2, AS APPROPRIATE. WIRE SHALL BE TWO STRANDED TWISTED NO. 12-1/2 ASW GAUGE STEEL, WITH FOUR POINT BARBS, NO. 14 ASW GAUGE MINIMUM, 1/2 MINIMUM LENGTH, SPACED ON APPROXIMATELY 5" CENTERS.
- CONCRETE:** CONCRETE SHALL BE OF A COMMERCIAL GRADE WITH A MINIMUM 28 DAY STRENGTH OF 3000 P.S.I. FOOTING TOPS SHALL BE 1" MINIMUM ABOVE GROUND AT THE POST, AND TROWEL FINISHED TO SLOPE AWAY FROM POST.
- OPENINGS UNDER FENCE:** ANY OPENINGS UNDER FENCES, WHEREIN THE BOTTOM FENCE WIRE IS MORE THAN 4" ABOVE GROUND AND THE TOTAL AREA OF OPENING IS 96 SQUARE INCHES OR MORE, SHALL BE CLOSED.
OPENINGS LESS THAN 18" HIGH SHALL BE CLOSED BY INSTALLING ONE OR MORE ADDITIONAL LINE POSTS NEAR THE OPENING CENTER AND STRETCHING STRANDS OF BARBED WIRE BETWEEN THE EXTRA POSTS AND ADJACENT LINE POSTS AT 6" MAXIMUM VERTICAL SPACING. VERTICAL STRANDS OF BARBED WIRE SHALL BE INSTALLED AT 12" MAXIMUM HORIZONTAL SPACING AND TIED TO ALL HORIZONTAL STRANDS AND THE FABRIC BOTTOM WIRE. THIS WORK SHALL BE INCIDENTAL TO FENCE INSTALLATION COSTS.
OPENINGS 18" OR MORE IN HEIGHT, OPENINGS IN HIGH SECURITY RISK AND HAZARD AREAS, DITCHES, DRAINAGE COURSES, ETC., SHALL BE CLOSED BY METHODS DETAILED ON THE CONTRACT PLANS. PAYMENT FOR CLOSURES DETAILED ON THE PLANS SHALL BE AS NOTED ON THE CONTRACT PLANS.
- GROUND RODS, CHAIN LINK FENCE ONLY:** GROUND RODS SHALL BE INSTALLED AT 500' MAXIMUM INTERVALS, INCIDENTAL TO FENCE COST. EACH SECTION OF FENCE SEPARATED BY NON-METALLIC CONNECTORS, BUILDINGS OR OTHER OPENINGS SHALL HAVE A MINIMUM OF ONE GROUND ROD. EACH GATE LEAF FRAME SHALL BE CONNECTED TO THE GATE POST BY BRAIDED FLEXIBLE COPPER STRAP. EACH GATE POST SHALL BE GROUNDED AS DETAILED. GROUND RODS SHALL BE 5/8" X 8' MIN. SIZE, COPPER OR COPPER CLAD GROUND CABLE SHALL BE NO. 6 AWG MIN. BARE STRANDED COPPER WIRE, FOR FENCES GROUNDING SHALL BE AS DETAILED. CONNECTIONS TO FENCE AND RODS SHALL BE MADE WITH SUITABLE NON-CORROSIVE METAL CLAMPS, LUGS OR CONNECTORS.
- FENCE LINE AND ALIGNMENT:** FENCE LINES SHALL BE CLEARED OF ALL OBSTRUCTIONS AND SMOOTH GRADED TO THE GENERAL CONTOUR OF THE ADJACENT GROUND FOR A MINIMUM WIDTH OF 10' EACH SIDE OF LINE, INCIDENTAL TO FENCE COSTS. STUMPS AND ROOTS NOT INTERFERING WITH FENCE CONSTRUCTION, MAY BE CHIPPED TO GROUND LEVEL.
THE FENCE SHALL BE CONSTRUCTED VERTICAL, STRAIGHT AND TRUE TO LINE, THE LONGITUDINAL GRADIENT SHALL PARALLEL THE GENERAL SLOPE OF THE GROUND.
- SHOP DRAWINGS:** DETAILS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. CONTRACTOR SHALL SUBMIT MANUFACTURER SPECIFIC SHOP DRAWINGS FOR APPROVAL.

DATE	REVISIONS	CHECKED

DATE	REVISIONS	CHECKED



FENCE DETAILS

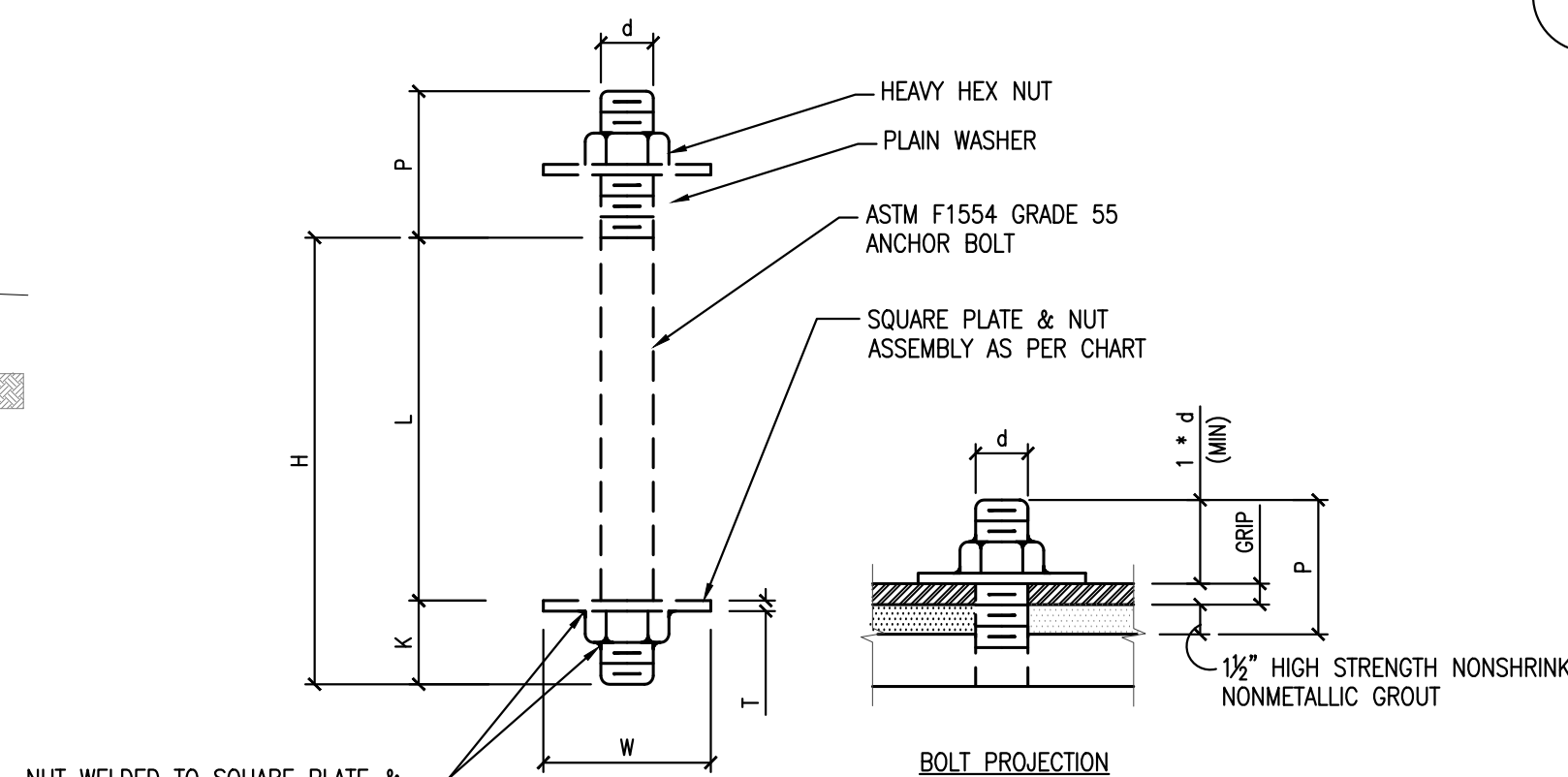
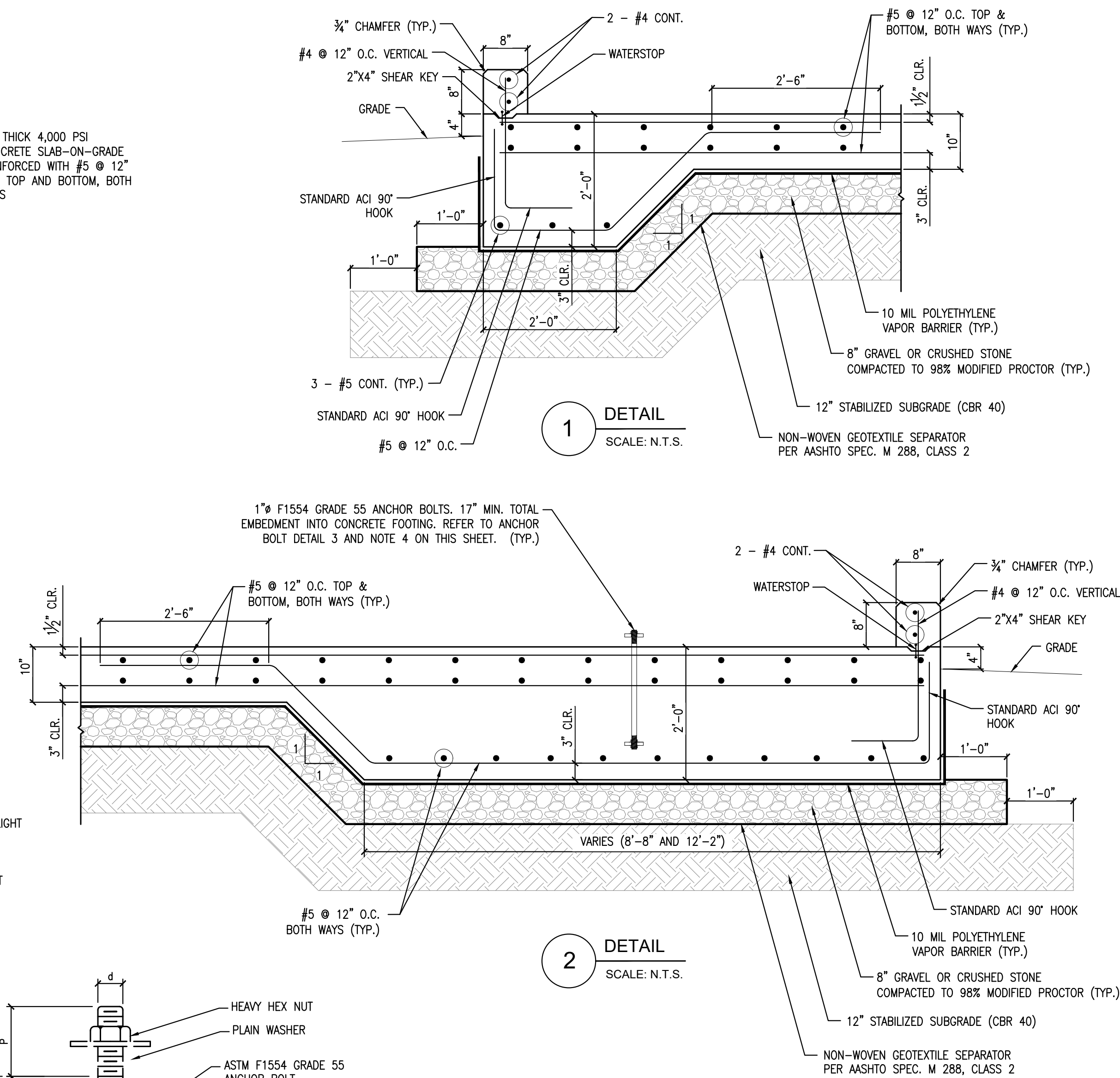
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SCALE		
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SHEET 5 OF 24		

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S001
SHEET 6 OF 24



LETTERED DIMENSIONS		BOLT LENGTH = H + P				
		BOLT DIAMETER d				
SQUARE FLANGE	W	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{1}{2}$	$\frac{1}{2}$	$1\frac{1}{2}$
	T	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1
	HOLE ϕ	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$1\frac{1}{8}$	$1\frac{1}{8}$
	L	$10\frac{1}{2}$	15	16	16	16
	H	12	17	$18\frac{1}{2}$	19	$19\frac{1}{2}$
	K	$\frac{1}{2}$	2	$\frac{3}{2}$	3	$3\frac{1}{2}$
P MIN		$\frac{4}{5}$				
PLAIN WASHER		MEDIUM				

- NOTES:
1. FIELD VERIFY ALL TANK DIMENSIONS AND NOTIFY EOR OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
 2. FIELD VERIFY ALL TANK SUPPORT LOCATIONS TO ENSURE THAT ANCHORAGE FALLS WITHIN THE SLAB THICKENED EDGE FOOTINGS. NOTIFY EOR OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
 3. EVEN THOUGH TANKS ARE DOUBLE WALLED, 8" PERIMETER CURB PROVIDED ADDS AN ADDITIONAL 12,385 GALLONS OF CONTAINMENT.
 4. PROVIDE A MINIMUM OF 6 ANCHOR BOLTS PER TANK SUPPORT SKID. ASSUME TWO SKID SUPPORTS PER TANK. COORDINATE WITH ACTUAL TANK MANUFACTURER AND NOTIFY EOR OF ANY DISCREPANCIES PRIOR TO PROCEEDING.

FOUNDATION PLAN, SECTIONS & DETAILS

EXECUJET FUEL TERMINAL
TANKS FOUNDATION
CYRIL E. KING AIRPORT
CHARLOTTE AMALIE,
ST. THOMAS, USVI 00801

 **BuildTec, LLC**
#7-1 BONNE ESPERANCE
P.O. BOX 8269, CHRISTIANSTED, U.S.V.I. 00823
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	BY	DATE
DSGN	DC	11/02/25
DRAWN	DC	11/02/25
CHK'D	DC	11/02/25
APPR.	DC	11/02/25
PROJECT NO.		

BUILDTEC - EXECUJET

SCOPE OF WORK

EXECUJET IS ADDING A FUEL FILL STATION ON CYRIL E. KING AIRPORT, ST. THOMAS. THE FILL STATION CONSISTS OF 5 FUEL TANKS; TWO 20,000 GALLON TANKS FOR JET A, TWO 12,500 GALLON TANKS FOR JET A, AND ONE 12,500 GALLON TANK FOR AVGAS. THE STATION WILL ALSO HAVE ASSOCIATED PUMPS AND CONTROLS FOR THE FUEL TANKS.

THE SCOPE OF THIS PROJECT IS TO ADD GENERATOR AND POWER DISTRIBUTION FOR THE SUPPORT OF THE FUEL FILL STATION. THIS ALSO INCLUDES THE ADDITION OF SITE LIGHTING AND LIGHTNING PROTECTION.

THE WORK IS AS FOLLOWS:

1. PROVIDE AN ELECTRICAL DRAWING PACKAGE FOR PERMITTING AND CONSTRUCTION PURPOSES.
2. ELECTRICAL CONTRACTOR TO PROVIDE AN ELECTRICAL PERMIT AS REQUIRED BY DPNR AFTER CZM PERMIT IS APPROVED.
3. INSTALL GENERATOR PER AN APPROVED WAPA AND DPNR DRAWING PACKAGE.
4. PROVIDE AND INSTALL TRENCH, CONDUIT, AND WIRE PER THE ELECTRICAL DRAWINGS.
5. PROVIDE AND INSTALL LIGHTNING PROTECTION, GROUNDING, AND BONDING PER THE ELECTRICAL DRAWINGS.
6. PROVIDE AND INSTALL ALL EQUIPMENT PER THE ELECTRICAL DRAWINGS.
7. TEST AND COMMISSION SYSTEM.
8. PROVIDE A FINAL ELECTRICAL INSPECTION CERTIFICATE FROM DPNR.

GENERAL NOTES

1. ALL WORK TO BE INSTALLED BY A QUALIFIED AND APPROPRIATELY LICENSED CONTRACTOR.
2. ELECTRICAL CONTRACTOR SHALL BE FULLY COGNIZANT OF THE LATEST EDITION OF THE NFPA 70 (NEC), INTERNATIONAL BUILDING CODE, AND ALL LOCAL CODES, ORDINANCES OF THE AUTHORITIES HAVING JURISDICTION AND PERFORM ALL WORK IN ACCORDANCE WITH THE INTENT AND REQUIREMENTS OF THESE CODES, ORDINANCES, AND AUTHORITIES.
3. MECHANICAL CONTRACTOR SHALL BE FULLY COGNIZANT OF THE LATEST ADOPTED INTERNATIONAL BUILDING CODE AND ANY OTHER APPROPRIATE LOCAL CODES, ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
4. PERMISSION TO OPERATE THE SYSTEM IS NOT AUTHORIZED UNTIL FINAL INSPECTIONS AND APPROVALS ARE OBTAINED FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND THE UTILITY PROVIDER.
5. ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL MEET A MINIMUM WIND LOAD OF 165 MPH. ALL CONNECTORS SHALL BE TORQUED PER DEVICE LISTING, MANUFACTURERS INSTALLATION INSTRUCTIONS, OR ENGINEERING RECOMMENDATIONS.
6. ALL INSTALLATION MATERIALS INCLUDING, BUT NOT LIMITED TO, FASTENERS SHALL BE CORROSION RESISTANT AND APPROPRIATE FOR SITE CONDITIONS.
7. CONTRACTOR IS ADVISED THAT ALL DRAWINGS, INSTRUCTION, AND COMPONENT MANUALS ARE TO BE UNDERSTOOD PRIOR TO INSTALLATION. ALL SWITCHES SHALL BE IN THE "OFF" POSITION AND FUSES REMOVED PRIOR TO INSTALLATION OF FUSE-BEARING COMPONENTS.

PROJECT TEAM

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DRAWING INDEX

DRAWING NUMBER	DRAWING NAME
G-01	COVER SHEET
E0-01	GENERAL ELECTRICAL NOTES
E0-02	GENERAL ELECTRICAL NOTES
E0-03	SYSTEM LABELS
E1-00	SITE PLAN
E1-01	SITE LAYOUT
E1-02	LIGHTNING AND GROUNDING PLAN
E1-03	HAZARDOUS AREA LAYOUT
E5-01	SCHEDULES
E5-02	PANEL SCHEDULES
E6-01	ONE LINE DIAGRAM
E7-01	TRENCH DETAILS
E7-02	EQUIPMENT SLAB DETAILS
E7-03	EQUIPMENT SPECS
E7-04	LIGHTING DETAILS
E7-05	LIGHTNING PROTECTION
E7-06	CLASS 1 - DIV 2 DETAIL

NOTE

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED FOR CONSTRUCTION. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL SYSTEM, WHETHER INDICATED ON THE PLANS OR NOT.

NOTES

ISSUE FOR
CONSTRUCTION

STAMP



B	Revision	05/26/26
A	Revision	04/17/26
--	Initial Release	03/6/26
No.	Revision/Issue	Date

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Drawing

COVER SHEET

Area

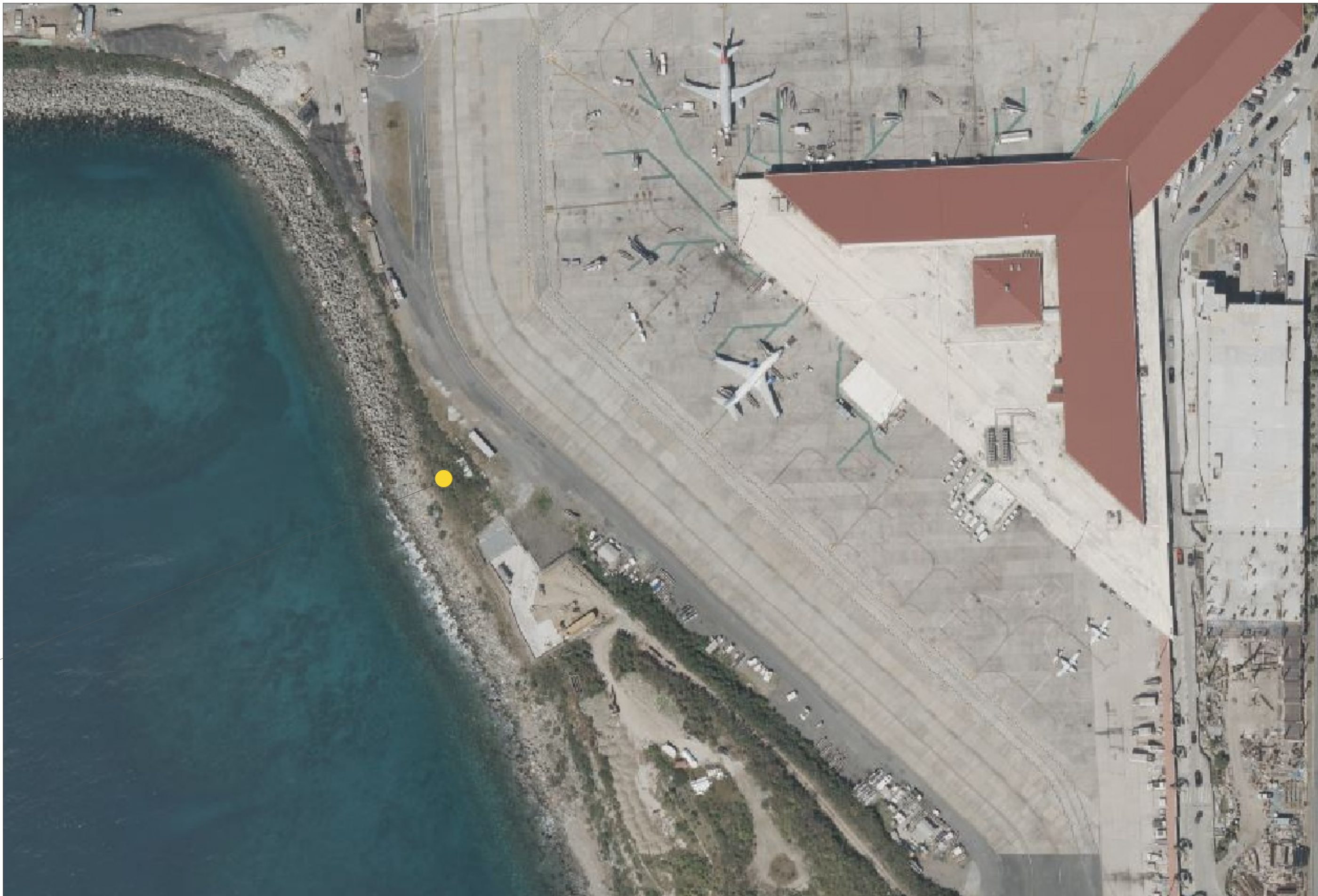
SITE

Scale

NTS

Sheet

G0-01



5
GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL BE FULLY COGNIZANT OF THE LATEST EDITION OF THE NFPA 70 (NEC), 2013 NFPA 70, 2013 NFPA 72, AND ALL THE CODES, ORDINANCES OF THE AUTHORITIES HAVING JURISDICTION AND PERFORM ALL WORK IN ACCORDANCE WITH THE INTENT AND REQUIREMENTS OF THESE CODES, ORDINANCES, AND AUTHORITIES.
2. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS.
3. WHEREVER THE WORD "PROVIDE" IS USED IT SHALL BE MEAN TO "PROVIDE AND INSTALL."
4. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
5. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
6. PROPOSED SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "EQUIVALENT" OR "APPROVED EQUIVALENT" LISTING SHALL BE SUBMITTED TO ENGINEER NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID.
7. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ENGINEER AND SITE MANAGER.
8. ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSI, U.L., ETC. AND SHALL BEAR AN UNDERWRITERS LABEL WHERE APPLICABLE.
9. PROVIDE PERMITS AND INSPECTIONS AS REQUIRED PER WIMAPA AND VIDPNR.
10. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNERS ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
11. PROVIDE ALL UPDATES, ALTERATIONS, RE-ROUTINGS, CHANGES AND AS-BUILT CONDITIONS TO THE ENGINEER FOR RECORD DRAWING UPDATES.
12. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
13. THE CONTRACTOR SHALL COORDINATE WITH WAPA ALL REQUIREMENTS FOR SCOPE OF WORK THAT INVOLVES VOLTAGES ABOVE 600VAC, INCLUDING CONDUIT, TERMINATIONS, HAND HOLE INSTALLATION, SWITCHGEAR, AND PADMOUNT TRANSFORMERS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.
14. SPLICES IN EXTERIOR PULLBOXES AND HAND HOLES SHALL BE MADE WATER PROOF USING 3M "SCOTCHCAST" SPLICE KIT OR APPROVED EQUIVALENT SEAL; ENDS OF CONDUITS AND DUCTS WITH "DUCT SEAL" OR APPROVED EQUIVALENT.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
16. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS, AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIAL, EQUIPMENT OR INSTALLATION METHODS.
17. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING AND INSTALLING CONDUIT.
18. PULLBOXES, CABINETS, ETC., MOUNTED ON THE EXTERIOR AT GRADE LEVEL, SHALL BE WEATHER PROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPER-PROOF SCREWS.
19. DRY TYPE TRANSFORMERS SHALL BE MOUNTED ON RUBBER-IN-SHEAR ISOLATORS. MANUFACTURERS SHALL BE ASEA BROWN BOVERI, CUTLER HAMMER, GENERAL ELECTRIC, SIEMENS (ITE), OR SORREL (SQ. D).
20. PROVIDE ENGRAVED NAMEPLATES ON HAND HOLES AND TRANSFORMERS INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE.
21. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 90 DEGREE C.
22. ALL CABLES MUST BE TERMINATED WITH PREFORMED TERMINATIONS FOR EXTERIOR USE. TERMINATIONS SHALL BE RATED AT THE NOMINAL VOLTAGE OF THE CABLE OR SHALL BE ONE STEP HIGHER THAN THE NOMINAL VOLTAGE.
23. ALL PARTS, EQUIPMENT, INDICATOR LIGHTS, AND METERS SHALL BE READILY ACCESSIBLE TO AUTHORIZED PERSONS BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES, AND CLEARANCES.
24. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL UNDERGROUND CONDUIT SYSTEMS WITH RACK MOUNTING STRUCTURES.
25. CONDUCTORS SHOWN ON THE CONSTRUCTION DOCUMENTS MAY BE UPSIZED TO LIMIT VOLTAGE DROP. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED COMPRESSION PIN TERMINALS, SPLICES, ETC. TO ACCOMMODATE MANUFACTURER MAX WIRE SIZE REQUIREMENTS.
26. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WORK FOR EQUIPMENT PADS, PILINGS, AND DUCTBANK ENVELOPES. PROVIDE ALL CONCRETE, STEEL REINFORCING, ETC. AS INDICATED ON THE CONSTRUCTION DOCUMENTS.
27. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TESTING REQUIRED BY MANUFACTURER AND COORDINATED WITH COMMISSIONING ENGINEER.
28. MINIMUM CONDUCTOR SIZE FOR POWER SHALL BE #10 AWG. ALL CONDUCTORS SIZED #8 AWG AND LARGER SHALL BE STRANDED COPPER.
29. ALL CONDUITS EXPOSED TO WEATHER SHALL BE RIGID GALVANIZED STEEL CONDUIT (RGS). PROVIDE THREADED WATERTIGHT RIGID GALVANIZED THREADED FITTINGS.
30. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. PVC JOINTS SHALL BE SOLVENT WELDED. THREADS WILL NOT BE PERMITTED ON PVC CONDUIT OR FITTINGS, EXCEPT RIGID STEEL TO PVC COUPLINGS.
31. MINIMUM TRADE SIZE CONDUIT PERMITTED SHALL BE 3/4". MINIMUM CONDUIT SIZE FOR BURIED CONDUITS SHALL BE 1".
32. FINAL CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION SHALL BE MADE USING LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT AND/OR PER MANUFACTURERS RECOMMENDATION.
33. LOCATION AND ROUTING OF CONDUITS IS APPROXIMATE AND DEPICTS DESIGN INTENT ONLY. THE CONTRACTOR, SITE MANAGER, AND ENGINEER IS RESPONSIBLE FOR DETERMINING FINAL CONDUIT ROUTING IN THE FIELD. THE CONTRACTOR SHALL COORDINATE THE FINAL ROUTING OF CONDUITS TO AVOID CONFLICTS WITH OTHER UTILITIES AND OBSTACLES, WHILE MINIMIZING CHANGES IN THE DIRECTION AND OVERALL CONDUIT LENGTH. ALL CONDUIT SHALL BE RUN UNDERGROUND EXCEPT AS INDICATED. OBTAIN APPROVAL OF ENGINEER PRIOR TO ANY CHANGES IN ROUTING. PROVIDE HANDHOLES AS NECESSARY. TOTAL NUMBER OF BENDS SHALL BE LIMITED TO A MAXIMUM OF 360 BETWEEN PULL BOXES OR HANDHOLES. MAXIMUM DISTANCE BETWEEN HANDHOLES FOR UNDERGROUND CONDUITS SHALL BE 500'.
34. CONDUCTOR COLOR CODING SHALL BE AS FOLLOWS:
- | | | |
|-------------------|-------------------|---------------------|
| 208Y/120V SYSTEMS | 480Y/277V SYSTEMS | DC SYSTEMS |
| PHASE A: BLACK | PHASE A: BROWN | POSITIVE (+): RED |
| PHASE B: RED | PHASE B: ORANGE | NEGATIVE (-): BLACK |
| PHASE C: BLUE | PHASE C: YELLOW | GROUND: GREEN |
| NEUTRAL: WHITE | NEUTRAL: WHITE | |
35. ALL 480V GEAR SHALL BE LABELED PER NEC.
37. SWITCHES CONTROLLING LIGHTING LOADS SHALL HAVE A NEUTRAL CONDUCTOR. ANY EXCEPTIONS THAT MAY MEET ARTICLE 404.1(C) SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) PRIOR TO INSTALLATION.
38. TAMPER-RESISTANT RECEPTACLES SHOULD BE INSTALLED WHERE REQUIRED PER NEC ARTICLE 406.12.

EXCAVATION AND BACKFILL

4

40. BACKFILL. ALL BACKFILL SHOULD BE FREE OF MATERIAL THAT MAY DAMAGE THE CONDUIT SYSTEM, BACKFILL WITHIN 6 INCHES OF THE CONDUIT SHOULD BE FINE FILL MATERIAL, FREE OF ANY SOLID MATERIAL GREATER THAN 2 INCHES IN MAXIMUM DIMENSION OR WITH SHARP EDGES LIKELY TO DAMAGE THE CONDUIT SYSTEM. THE BALANCE OF BACKFILL SHOULD BE FREE OF SOLID MATERIAL NOT GREATER THAN 4 INCHES IN MAXIMUM DIMENSION. BACKFILL MATERIAL SHOULD BE ADEQUATELY COMPACTED TO 95% IN LAYERS NOT GREATER THAN 6 INCHES (CALICHE OR EQUIVALENT). VIWAPA RECOMMENDS THE USE OF FLOWABLE FILL (LOW STRENGTH CONCRETE RATED BETWEEN 75 PSI TO 200 PSI) AS AN ALTERNATIVE BACKFILL MATERIAL.
41. CONCRETE IN TRENCH. THE USE OF CONCRETE OVER CONDUITS IN THE TRENCH IS OPTIONAL ONCE THE PROPER DEPTH IS MET. THE MINIMUM DEPTH TO THE CONDUIT SYSTEM SHALL MAINTAIN A 3 FOOT DIMENSION FROM FINISH GRADE TO TOP OF CONDUIT. IF THIS MEASUREMENT IS NOT POSSIBLE, THEN 3 INCHES OF CONCRETE SHALL BE INSTALLED TO TRENCH OVER THE CONDUITS FOR EACH 12 INCHES OF DEPTH NOT ACHIEVED. CONCRETE SHALL HAVE A MINIMUM ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI.
- GROUNDING AND BONDING
42. ALL EQUIPMENT AND SYSTEM SHALL MEET THE GROUNDING AND BONDING REQUIREMENTS OF NEC ARTICLE 250.
43. INSULATION SHIELDING OF CABLE, CONCENTRIC NEUTRAL AND JOINTS SHALL BE EFFECTIVELY GROUNDED. CABLE SHEATHS OR SHIELDS AND CONCENTRIC NEUTRAL WHICH ARE CONNECTED TO GROUND AT THE HAND HOLE SHALL BE BONDED OR CONNECTED TO A COMMON GROUND.
44. BONDING AND GROUND LEADS SHALL BE COPPER AND OF PROPER SIZE.
45. ALL CABLES CONNECTED TO GROUND RODS SHOULD BE CAD-WELDED OR APPROVED DIRECT BURIAL COMPRESSION CRIMPS.
46. GROUNDING ELECTRODE SYSTEM BONDED PER NEC 250.50.
47. RACK AND SOLAR PV TRACKERS SHALL BE BONDED PER UL-3703, CHAPTERS 16, 17, 43, AND 46.
- HIGH VOLTAGE (> 600VAC) TESTING
48. LINES AND EQUIPMENT SHALL BE SUBJECTED TO STANDARD TESTS TO DETERMINE THAT THEY ARE IN ACCEPTABLE CONDITION BEFORE THE SYSTEM IS CONNECTED TO VIWAPA.
49. 15 KV HIGH VOLTAGE CABLES SHALL BE TESTED FOR A DURATION OF 15 MINUTES WITH HIGH POTENTIAL TEST VOLTAGES (HI POT TEST) OF 40 KV (DIRECT VOLTAGE, CONDUCTOR TO GROUND).

50. PRIOR TO ENERGIZE, THE TRA

51. A QUALIFIED PERSON MUST PERFORM THESE TESTS IN THE PRESENCE OF VIWAPA TECHNICAL STAFF. CONTRACTOR IS TO INFORM VIWAPA TECHNICAL DEPARTMENT AT LEAST 2 WORKING DAYS BEFORE THE DESIRED TEST DATE.

ADDITIONAL REQUIREMENTS (IF APPLICABLE)

42. ALL ELECTRICAL WORK SHALL COMPLY WITH LATEST ADOPTED INTERNATIONAL BUILDING CODE WITH US VIRGIN ISLAND AMENDMENTS AND LATEST ADOPTED EDITIONS OF ALL APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION CODES, INCLUDING THE NATIONAL ELECTRICAL CODE, SPECIFICALLY ARTICLES 690 AND 705.
53. ALL APPLICABLE EQUIPMENT SHALL CONFORM TO NEMA STANDARDS AND SHALL BEAR UL LABELS OR EQUIVALENT PER THE AUTHORITY HAVING JURISDICTION FOR THE APPLICATION USED.
54. ALL SOLAR MODULES SHALL BE UL LISTED 1703 & CEC APPROVED. ALL INVERTERS SHALL BE UL LISTED 1741 CERTIFIED & CEC APPROVED.
55. SOLAR TRACKERS SHALL MEET UL STANDARD 3703.
56. PV RACKING SHALL MEET UL STANDARD 2703.
57. GROUND MOUNT RACK WITH ATTACHED PV MODULE SHALL BE CERTIFIED BY A USVI PROFESSIONAL ENGINEER TO WITHSTAND A MINIMUM WIND SPEED OF 165 MPH PER THE AMERICAN SOCIETY OF CIVIL ENGINEERING (ASCE) STANDARDS. CERTIFICATION SHALL BE BASED UPON MANUFACTURER'S DESIGN AND THE RESULTS OF THE GROUND PUSH/PULL TEST. THE PUSH/PULL TEST SHALL BE PERFORMED AND RESULTS PUBLISHED PRIOR TO FINAL RACK DESIGN, INSTALLATION, AND INSPECTION.
58. PERMISSION TO OPERATE THE SYSTEM IS NOT AUTHORIZED UNTIL FINAL INSPECTIONS AND APPROVALS ARE OBTAINED FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND THE LOCAL UTILITY SERVICE PROVIDER.
59. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS, FOR EXAMPLE, CONDUIT BODIES AND BOXES PER NEC 352.26.
60. PV SYSTEM CIRCUITS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS IN ACCORDANCE WITH NEC ARTICLE 690.12.

BATTERY SYSTEM REQUIREMENTS

61. SYSTEM SHALL ADHERE TO UL STANDARD 9540 AND BATTERY CELL SHALL ADHERE TO UL STANDARD 1642.
62. BATTERY INVERTER AND POWER ELECTRONICS SHALL ADHERE TO UL 1741 AND IEEE 1547.

MEDIUM VOLTAGE CABLE REQUIREMENTS (5KV - 35KV)

63. RACEWAYS SHALL BE INSTALLED AND COMPLETED PRIOR TO THE INSTALLATION OF MV POWER CABLES.
64. CONSULT CABLE MANUFACTURER FOR MAXIMUM ALLOWABLE PULLING TENSION. TENSION GAUGE MUST BE USED IF CALCULATED PULLING TENSION WITHIN 10% OF MAXIMUM PULLING TENSION.
65. USE ADEQUATE LUBRICATION OF THE PROPER TYPE TO REDUCE FRICTION IN CONDUIT AND DUCT PULLS.
66. AVOID SHARP BENDING OF THE CABLE AT THE FIRST PULLEY IN OVERHEAD INSTALLATIONS BY LOCATING THE PAY-OFF REEL FAR ENOUGH AWAY FROM THE FIRST PULLEY THAT THE LEAD-IN ANGLE IS KEPT RELATIVELY FLAT.
67. PROVIDE PHYSICAL PROTECTION OF CABLES, AVOID ABRASION AND OTHER DAMAGE TO CABLES DURING INSTALLATION.
68. SUPPORT CABLES AND CONDUCTORS INSTALLED ON SLOPES, VERTICAL RUNS AND RISERS IN A MANNER TO LIMIT DAMAGE AFTER INSTALLATION.
69. MINIMUM BENDING RADIUS FOR ALL CABLES WITH METALLIC SHIELD IS 12 TIMES THE DIAMETER OF THE INDIVIDUALLY SHIELDED CONDUCTORS OR 7 TIMES THE OVERALL DIAMETER, WHICHEVER IS GREATER.
70. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH TABLE 1 IN CHAPTER 9 OF THE NEC.
71. INSTALL CABLES IN ACCORDANCE WITH CABLE MANUFACTURER RECOMMENDATIONS.
72. VERIFY THE HIGH POTENTIAL TEST REPORT FOR THE CABLE PRIOR TO INSTALLATION.
73. TEST, TERMINATE, AND ENERGIZE CABLE AS SOON AS POSSIBLE AFTER INSTALLATION. IF CABLES ARE LEFT OVERNIGHT FOR MORE THAN 8 HOURS AFTER PULLING PRIOR TO TERMINATION, REMOVE THE PULLING ATTACHMENT, CUT THE CABLE END, RESEAL THE CABLE IMMEDIATELY WITH TAPE, PARAFFIN OR SHRINK WRAP CAPS, AND SUPPORT THE CABLE IN A MANNER WHICH WILL PREVENT ENTRANCE OF MOISTURE INTO THE CABLE. WHEN SEALING WITH TAPE, COMPLETELY WRAP CABLE END WITH RUBBER TAPE TO 3 INCHES FROM CABLE END. COVER RUBBER TAPE WITH POLYVINYLCHLORIDE TAPE.
74. ENSURE THE RADII OF BENDS, TERMINATION AND SPICE KITS, FITTINGS, CABLE RISERS, AND OTHER CONDITIONS ARE SUITABLE FOR THE CABLE AND CONFORM FULLY TO THE RECOMMENDATIONS OF THE CABLE MANUFACTURER. (NECA 600) (NFA 70, NEC 110.3(B))
75. PROTECT CABLES WHEN PULLING THROUGH INTERMEDIATE MANHOLES. (NECA 600) (NFA 70, NEC 110.2(B))

3

2

SYMBOLS AND LEGEND

	WALL SWITCH, 1-POLE 125V, 20A, MOUNT 46" A.F.F., 42" A.F.F. # COUNTERTOPS OR AS NOTED.		COMBINATION PHONE/DATA OUTLET, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. AT COUNTERTOPS OR AS NOTED.
	3-WAY WALL SWITCH, 1-POLE 125V, 20A, MOUNT 46" A.F.F., 42" A.F.F. # COUNTERTOPS OR AS NOTED.		EX-HAUST FAN – FRACTIONAL HORSEPOWER
	4-WAY WALL SWITCH, 1-POLE 125V, 20A, MOUNT 46" A.F.F., 42" A.F.F. # COUNTERTOPS OR AS NOTED.		MOTOR NUMBER (n) DENOTES HORSEPOWER
	DIMMER WALL SWITCH, 1-POLE 125V, 20A, MOUNT 46" A.F.F., 42" A.F.F. # COUNTERTOPS OR AS NOTED.		DISCONNECT SWITCH – NON FUSED, A = AMP RATING, xxx = VOLTAGE/# POLES
	3-WAY, DIM WALL SWITCH, 1-POLE 125V, 20A, MOUNT 46" A.F.F., 42" A.F.F. # COUNTERTOPS OR AS NOTED.		DISCONNECT SWITCH – FUSED, A = AMP RATING, xxx = VOLTAGE/# POLES
	4-WAY, DIM WALL SWITCH, 1-POLE 125V, 20A, MOUNT 46" A.F.F., 42" A.F.F. # COUNTERTOPS OR AS NOTED.		SECURITY CAMERA - FIXED
	WALL CONTROLLED FAN SWITCH, MOUNT 46" A.F.F., 42" A.F.F. # COUNTERTOPS OR AS NOTED.		SECURITY CAMERA - POINT TO ZONE
	3 WAY, WALL CONTROLLED FAN SWITCH, MOUNT 46" A.F.F., 42" A.F.F. # COUNTERTOPS OR AS NOTED.		DOOR SENSOR
	MOTOR RATED TOGGLE SAFETY SWITCH, 2-POLE, 240V		WINDOW SENSOR
	WALL MOUNTED OCCUPANCY SENSOR, LINE VOLTAGE.		CEILING MOUNT VACANCY SENSOR, LINE VOLTAGE OR POWER PACK. INFRARED SENSING.
	CEILING MOUNTED OCCUPANCY SENSOR, LINE VOLTAGE OR POWER PACK. INFRARED SENSING.		CEILING MOUNT VACANCY SENSOR, LINE VOLTAGE OR POWER PACK. ULTRA SONIC SENSING.
	CEILING MOUNTED OCCUPANCY SENSOR, LINE VOLTAGE OR POWER PACK. ULTRA SONIC SENSING.		CEILING MOUNT VACANCY SENSOR, LINE VOLTAGE OR POWER PACK. DUAL TECHNOLOGY SENSING.
	CEILING MOUNTED OCCUPANCY SENSOR, LINE VOLTAGE OR POWER PACK. DUAL TECHNOLOGY SENSING.		CORNER MOUNTED MOTION SENSOR
	SINGLE RECEPTACLE, 125, 20A – NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. AT COUNTERTOPS OR AS NOTED.		CORNER MOUNTED MOTION SENSOR
	DUPLEX RECEPTACLE, 125, 20A – NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. AT COUNTERTOPS OR AS NOTED.		ACCESS KEYPAD
	DUPLEX RECEPTACLE ON GROUND FAULT INTERRUPTER CIRCUIT. 125V, 20A – NEMA 5-20R		ACCESS FINGERPRINT READER
	DUPLEX RECEPTACLE WITH SPLIT BUS, TOP HALF ON SWITCH CONTROL, 125V, 20A – NEMA 5-20R		ALARM HORN
	QUAD RECEPTACLE, 125, 20A – NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. AT COUNTERTOPS OR AS NOTED.		STROBE ONLY
	SINGLE RECEPTACLE, 240V, 30A		HORN & STROBE. CEILING MOUNT
	DUPLEX FLOOR RECEPTACLE, 125, 20A – NEMA 5-20R.		SMOKE DETECTOR
	DATA OUTLET, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. AT COUNTERTOPS OR AS NOTED.		FIRE ALARM PULL STATION
	TELEPHONE OUTLET, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. AT COUNTERTOPS OR AS NOTED.		WIRELESS ACCESS POINT
	OUTDOOR PARKING LOT POLE LIGHT WITH PHOTOEYE CONTROLS		OUTDOOR WALLPACK WITH PHOTOEYE CONTROLS
	EARTH GROUND		GROUND CABLE
	HOMERUN BACK TO PANEL. "P" REPRESENTS THE PANEL, "CN" DEPICTS THE CIRCUIT NUMBER.		UNDERGROUND ELECTRIC
	FEEDER HOME RUN		FUSE
	CABLE TO GROUND CONNECTION		CIRCUIT BREAKER "XX AT" INDICATES TRIP, "XX AF" INDICATES FRAME SIZE
	3/4" X 10'-0" COPPER GROUND ROD		DISCONNECT SWITCH, UNFUSED
	ELECTRIC MANHOLE		DISCONNECT SWITCH, FUSED
	ELECTRIC HAND HOLE		LIGHTING ARRESTOR
	GROUND CONNECTION		TRANSFORMER WITH SPLIT SECONDARY. H: PRIMARY VOLTAGE; X: SECONDARY 1 VOLTAGE; Y: SECONDARY 2 VOLTAGE
	POTENTIAL TRANSFORMER "2" INDICATES QUANTITY		3 PHASE, 3 WIRE DELTA CONNECTION
	CURRENT TRANSFORMER "3" INDICATES QUANTITY "500:5A" INDICATES PRIMARY TO SECONDARY TURNS RATIO		3 PHASE, 4 WIRE WYE SOLIDLY GROUNDING CONNECTION
	TRANSFORMER WITH PRIMARY VOLTAGE "H" AND SECONDARY VOLTAGE Y OR L		3 PHASE, 4 WIRE WYE "FLOATING" CONNECTION
	EMERGENCY EXIT LIGHTING WITH BACKUP BATTERY		

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NOTES

ISSUE FOR
CONSTRUCTION



B	Revision	05/26/26
A	Revision	04/17/26
--	Initial Release	03/6/26
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GENERAL NOTES

Area	
Scale	Sheet
NTS	E0-01

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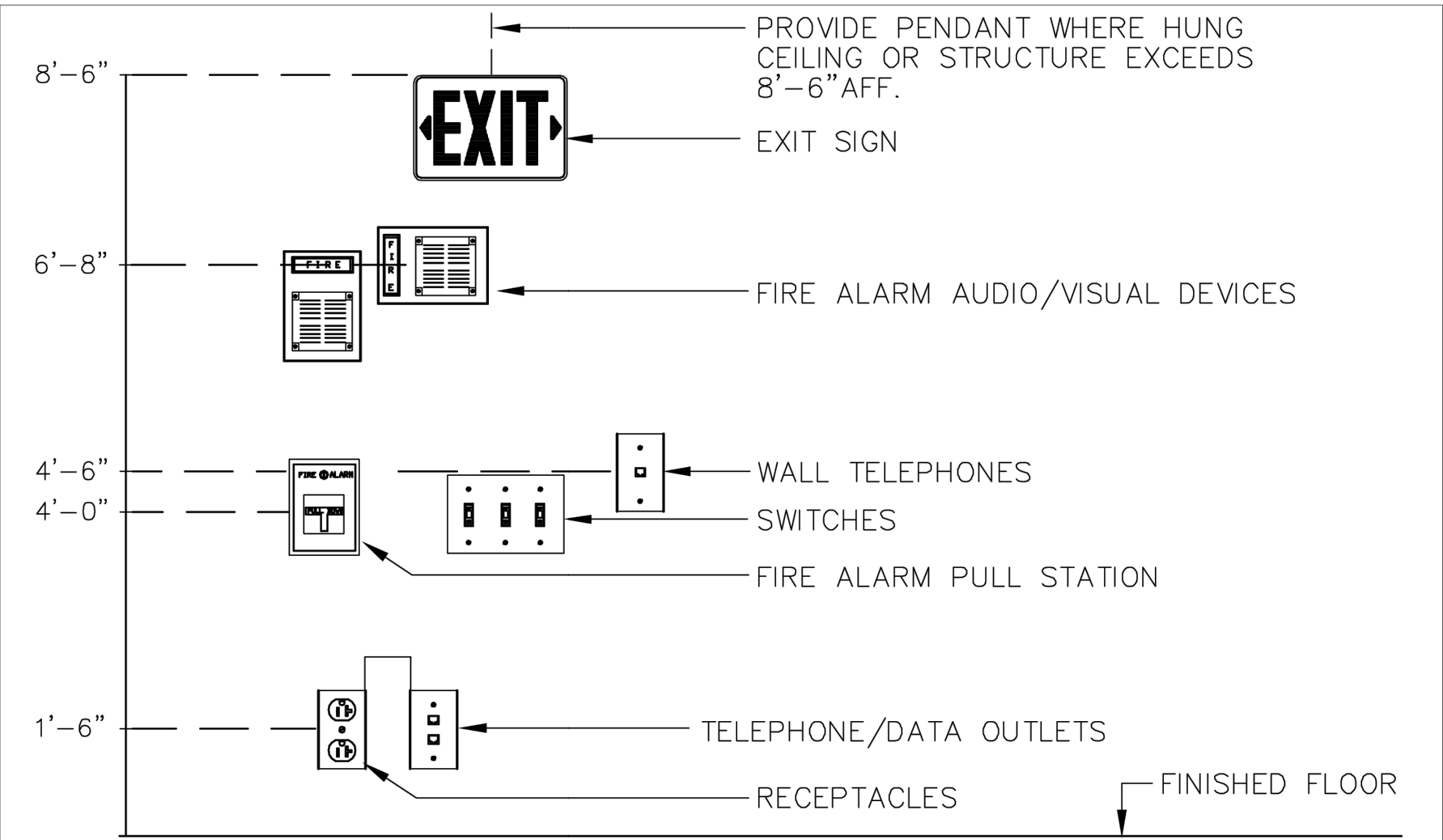
GENERAL NOTES CONT.

76. PROVIDE BUSHINGS OR ADAPTERS WHERE NONMETALLIC UNDERGROUND CONDUIT WITH CONDUCTORS ENTERS A BOX, FITTING, OR ENCLOSURE TO PROTECT THE CONDUCTORS OR CABLE FROM ABRASION, UNLESS THE DESIGN OF THE BOX, FIRING, OR ENCLOSURE PROVIDES EQUIVALENT PROTECTION. (NECA 600) (NFPA 70) (NEC 110.3(B))
77. TERMINATE AND SPICE CABLES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS USING APPROVED TOOLS AND METHODS. REVIEW DESIGN AND MANUFACTURER'S PRINTS AND INSTRUCTIONS PRIOR TO STARTING WORK. (NECA 600) (NFPA 70) (NEC 110.3(B))
78. IDENTIFICATION OF CABLES SHALL INCLUDE THE CABLE NUMBER AND DESTINATION (E.G., LOAD EQUIPMENT TAG NUMBER).
79. INDIVIDUAL PHASES OF POWER CIRCUITS SHALL BE IDENTIFIED BY COLOR CODING OR OTHER MEANS (E.G., MARKED A, B AND C). NEUTRAL (GROUNDED) CONDUCTORS SHALL BE IDENTIFIED BY COLORS WHITE OR GREY, AND INSULATED GROUNDING CONDUCTORS BY COLORS GREEN OR GREEN WITH YELLOW STRIPES.
80. WIRES AT TERMINATION POINTS SHALL BE IDENTIFIED BY THE USE OF PERMANENTLY IMPRINTED OR EMBOSSED WIRE MARKERS OF THE HEAT-SHRINKABLE OR SLIP-ON TYPE. SLIP-ON WIRE MARKERS SHALL BE SUFFICIENTLY TIGHT SO THAT THEY WILL NOT SLIP UNINTENTIONALLY. WRAP-AROUND, RIGID SNAP-ON, OR ADHESIVE TYPE MARKERS ARE NOT PERMITTED FOR WIRE OR CABLE IDENTIFICATION. CABLES MAY BE IDENTIFIED BY SPECIAL PLASTIC LABELS HELD WITH CABLE TIES, OR SIMILAR METHODS. COLORED INSULATING TAPES MAY BE USED FOR PHASE IDENTIFICATION OF POWER CIRCUIT CONDUCTORS.
81. STRESS RELIEF SHALL BE PROVIDED AT TERMINATIONS OF CABLES WITH INSULATION SHIELDS.
82. DIRECT BURIAL CABLES SHALL NOT BE PERMITTED TO BE SPLICED OR TAPPED WITHOUT THE USE OF SPICE BOXES. THE TAPS AND SPLICES SHALL BE WATERTIGHT AND PROTECTED FROM MECHANICAL DAMAGE. WHERE CABLES ARE SHIELDED, THE SHIELDING SHALL BE CONTINUOUS ACROSS THE SPICE OR TAP.
83. FOR SHIELDED POWER CABLES, CONTINUITY TESTING SHALL BE PERFORMED ON EACH CONDUCTOR AND THE SHIELD.
84. NEW INSTALLATIONS OF CABLE AND SPLICES SHALL BE 5 KV MEGGER TESTED BETWEEN EACH CONDUCTOR, AND EACH CONDUCTOR AND THE SHIELD (FOR SHIELDED CABLE) AND THEN DC HIGH-POTENTIAL TESTED AT VOLTAGE LEVELS LISTED ON THE TABLE BELOW.

RATED VOLTAGE PHASE-TO-PHASE (KV)	CONDUCTOR SIZE		NOMINAL INSULATION THICKNESS (INSULATION LEVEL)				MAXIMUM DC FIELD TEST VOLTAGES (KV)			
							DURING OR AFTER INSTALLATION		FIRST 5 YEARS	
	AWG/kcmil	mm²	100%		133%		100%	133%	100%	133%
			mils	mm	mils	mm				
5	8 - 1000	8.4 - 507	90	2.29	115	2.92	28	36	9	11
	> 1000	> 507	140	3.56	140	3.56				
8	6 - 1000	13.3 - 507	115	2.29	140	3.56	36	44	11	14
	> 1000	> 507	175	4.45	175	4.45				
15	2 - 1000	33.6 - 507	175	4.45	220	5.59	56	64	18	20
	> 1000	> 507	220	5.59						
25	1 - 2000	42.4 - 1013	260	6.60	320	8.13	80	96	25	30
28	1 - 2000	42.4 - 1013	280	7.11	345	8.76	84	100	26	31
35	1/0 - 2000	53.5 - 1013	345	8.76	420	10.7	100	124	31	39
46	4/0 - 2000	107.2 - 1013	445	11.3	580	14.7	132	172	41	54

85. UNDER SPECIAL CIRCUMSTANCES, AS DETERMINED BY THE CABLE PROPONENT, AN EXISTING OR OLD CABLE MAY BE 5 KV MEGGER TESTED, AND, IF IT HAS BEEN IN SERVICE FOR LESS THAN FIVE YEARS, IT MAY BE DC HIGH-POTENTIAL TESTED TO THE VOLTAGES LISTED IN THE TABLE ABOVE. DC HIGH-POTENTIAL TESTING SHALL NOT BE PERFORMED ON CABLES THAT HAVE BEEN IN SERVICE FOR MORE THAN FIVE YEARS. ALL CABLES, INCLUDING THOSE IN SERVICE FOR MORE THAN 5 YEARS CAN BE AC VERY LOW FREQUENCY (VLF) TESTED.

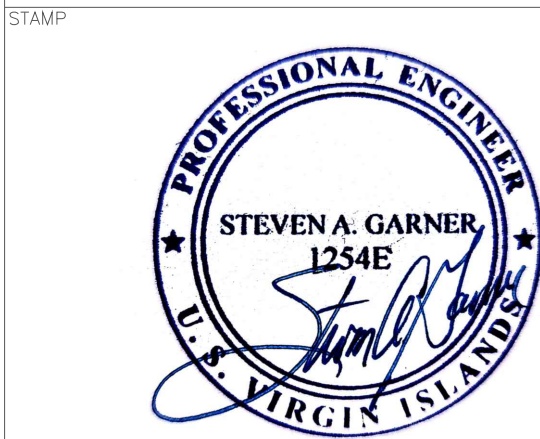
TYPICAL DEVICE MOUNTING HEIGHTS



- DEVICE INSTALLATION NOTES:
1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS, ALARM PULLS, CABLE TRAYS, AND SWITCHES.
2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
3. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.
4. ALL DEVICES SHALL BE INSTALLED 1'-6" MIN. FROM VERTICAL CENTERLINE OF DEVICE TO CORNER AND/OR EDGE OF PARTITION.
5. ALL ADJACENT DEVICES SHALL BE SEPARATED BY 3" MIN. IN THE HORIZONTAL DIRECTION UNLESS OTHERWISE NOTED.

NOTES

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Drawing		GENERAL NOTES	
Area			
Scale	Sheet	NTS	E0-02

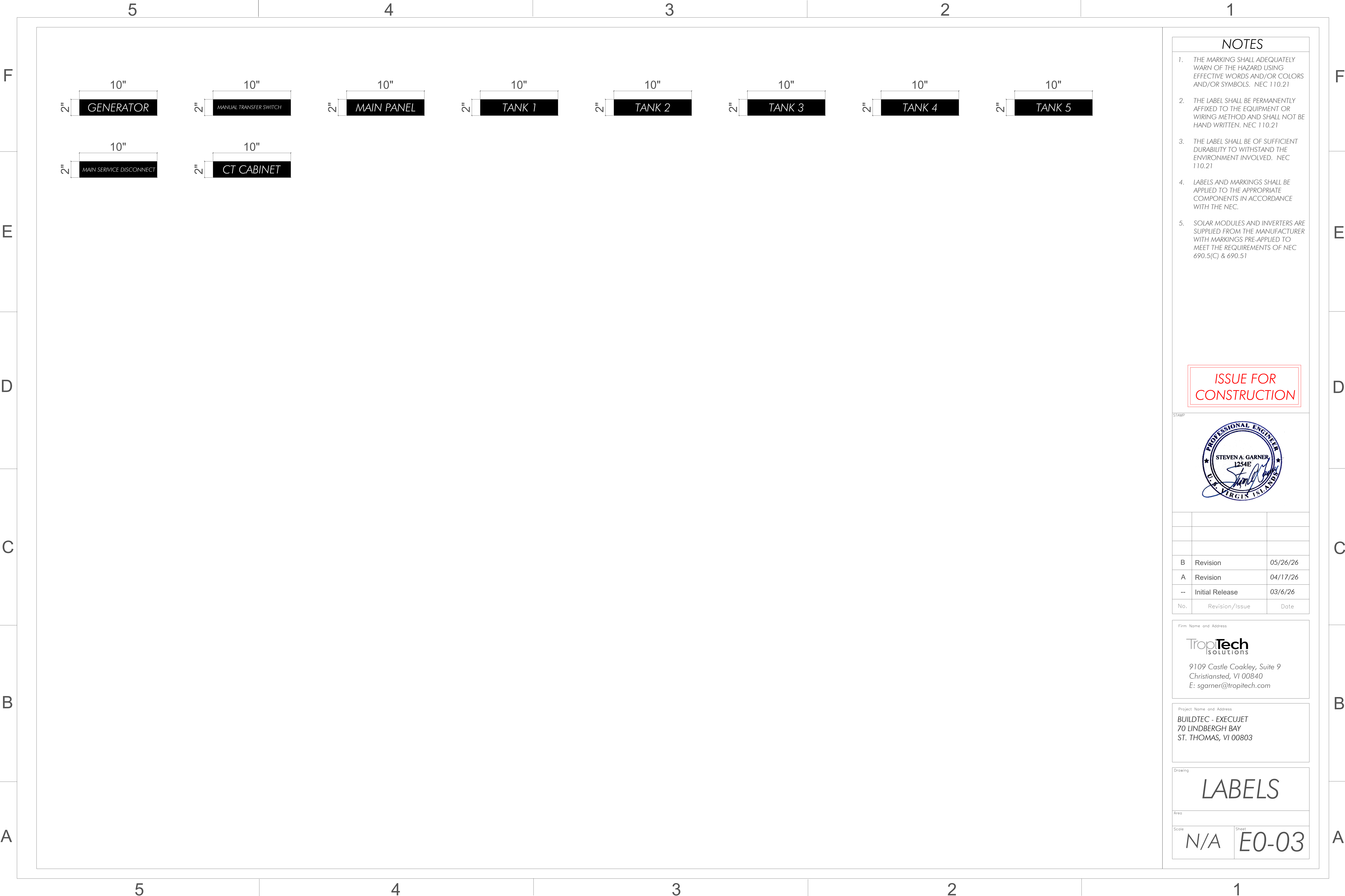
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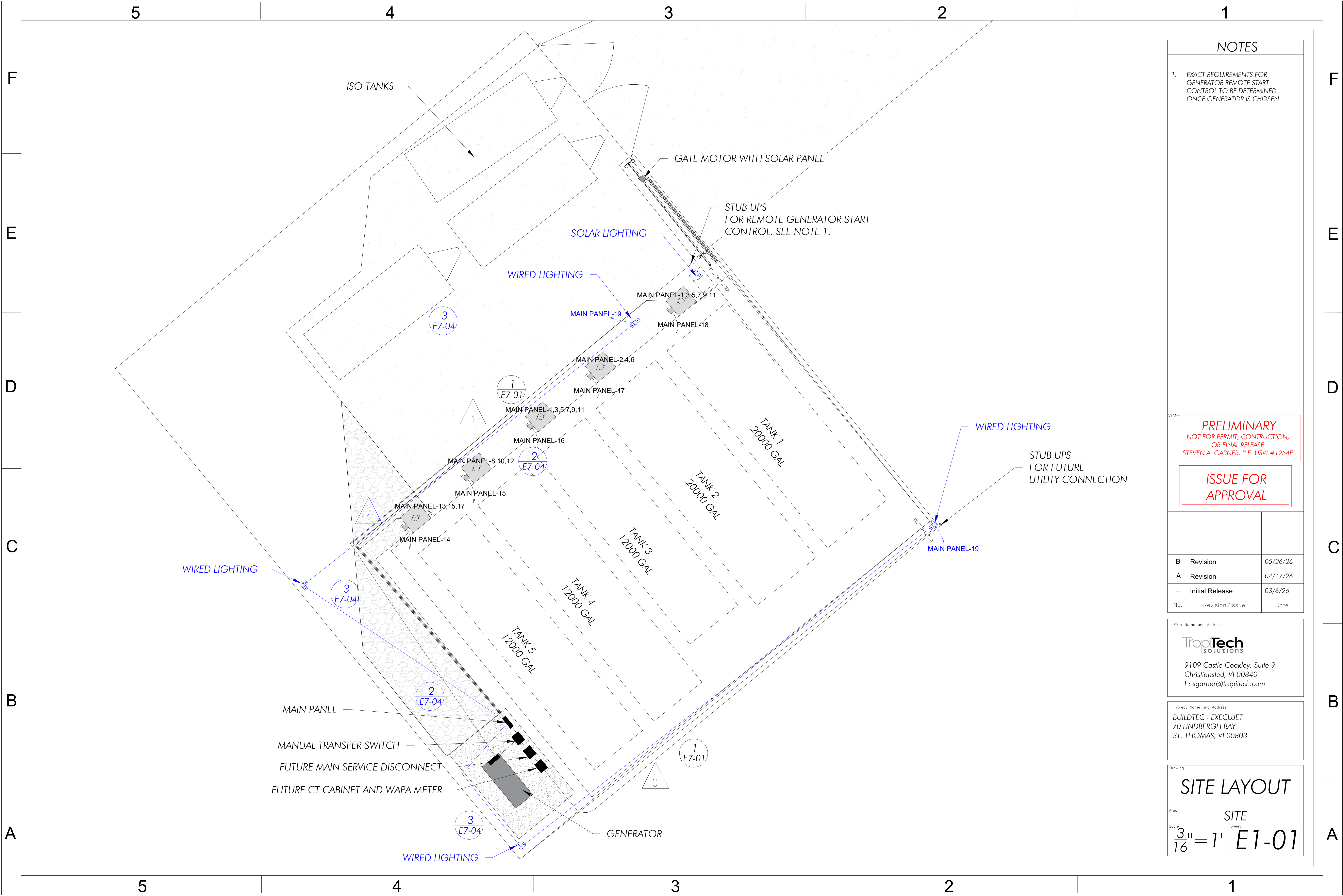
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NOTES

1. EXACT REQUIREMENTS FOR GENERATOR REMOTE START CONTROL TO BE DETERMINED ONCE GENERATOR IS CHOSEN.

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STEVEN A. GARNER, P.E. USVI #1254E

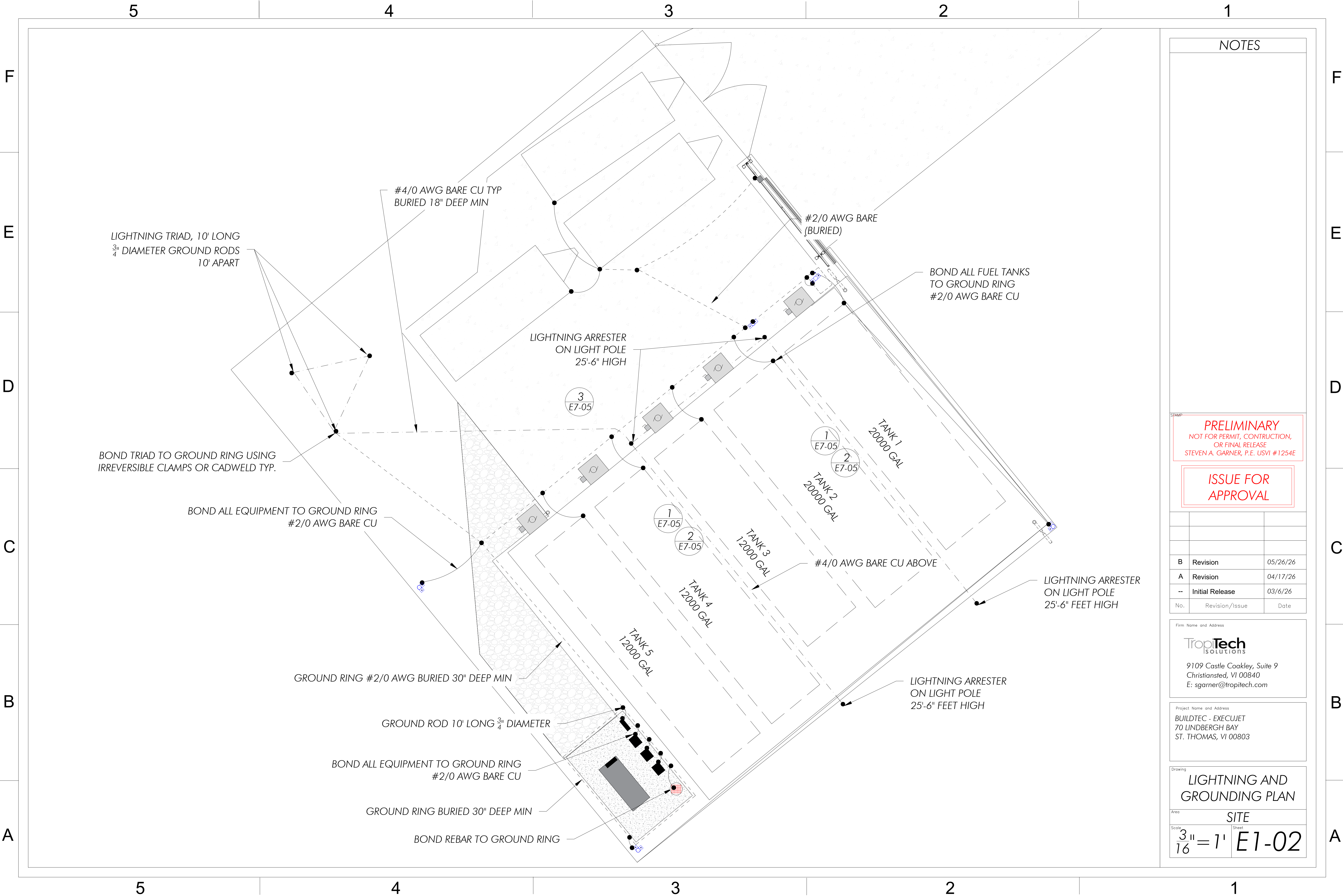
**ISSUE FOR
APPROVAL**

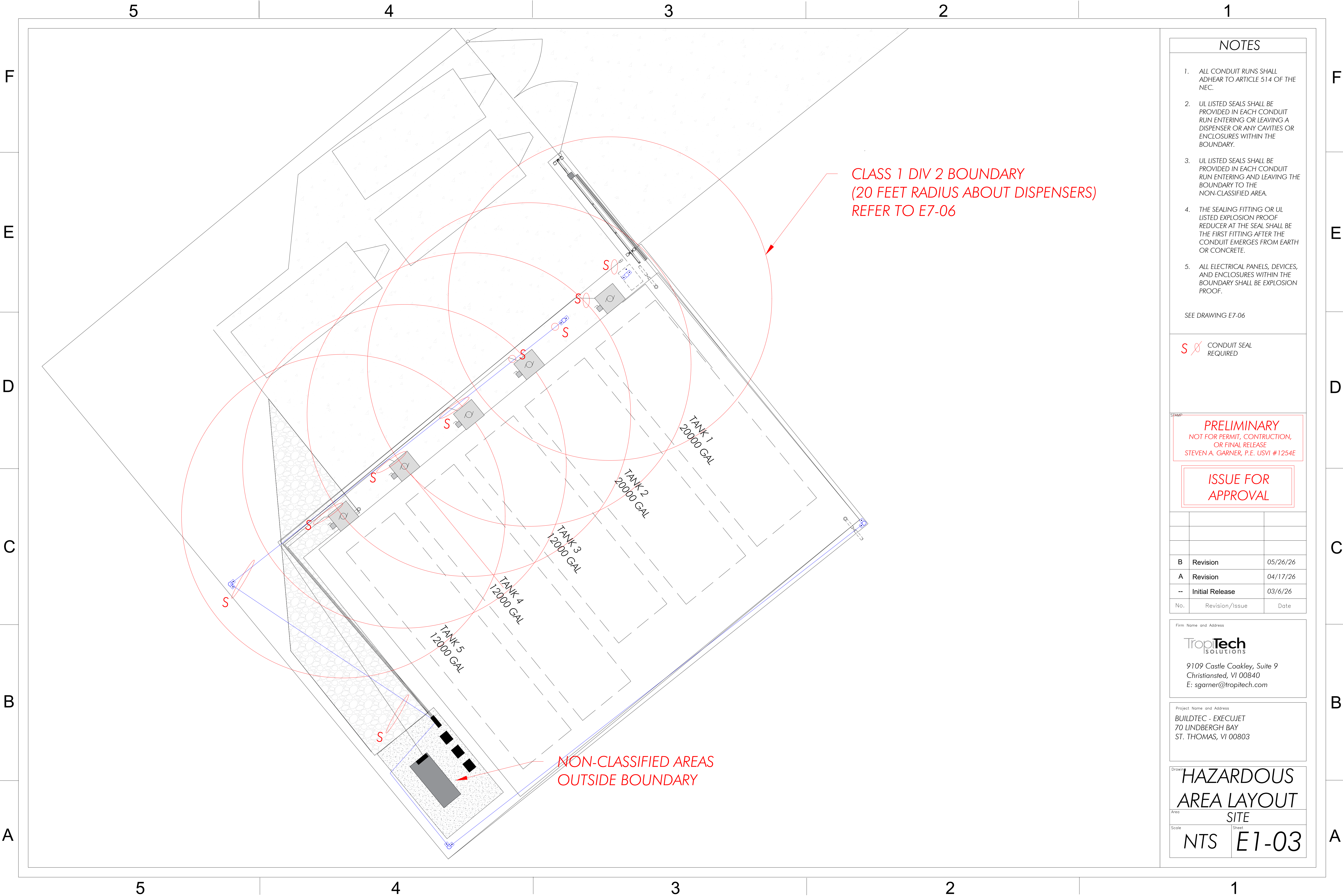
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Drawing
SITE LAYOUT
Area
SITE
Scale
 $\frac{3}{16}'' = 1'$ Sheet
E1-01





NOTES

- 1. ALL CONDUIT RUNS SHALL ADHEAR TO ARTICLE 514 OF THE NEC.
- 2. UL LISTED SEALS SHALL BE PROVIDED IN EACH CONDUIT RUN ENTERING OR LEAVING A DISPENSER OR ANY CAVITIES OR ENCLOSURES WITHIN THE BOUNDARY.
- 3. UL LISTED SEALS SHALL BE PROVIDED IN EACH CONDUIT RUN ENTERING AND LEAVING THE BOUNDARY TO THE NON-CLASSIFIED AREA.
- 4. THE SEALING FITTING OR UL LISTED EXPLOSION PROOF REDUCER AT THE SEAL SHALL BE THE FIRST FITTING AFTER THE CONDUIT EMERGES FROM EARTH OR CONCRETE.
- 5. ALL ELECTRICAL PANELS, DEVICES, AND ENCLOSURES WITHIN THE BOUNDARY SHALL BE EXPLOSION PROOF.

SEE DRAWING E7-06

S CONDUIT SEAL REQUIRED

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Drawing
**HAZARDOUS
AREA LAYOUT
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E1-03

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EQUIPMENT SCHEDULE

ITEM#	EQUIPMENT	DESCRIPTION	MANUFACTURER	MODEL	QTY	SH
0	MAIN SERVICE DISCONNECT	SAFETY SWITCH, HEAVY DUTY, NON-FUSIBLE, 400A, 3POLE, 350HP, 600VAC, NEMA 4X, 316 STEEL	SQD	HU365SS	1	E6-01
1	GENERATOR	208Y/120V, 3PH, SOUND ATTENUATED, NEMA 4X ALUMINUM ENCLOSURE	TRITON	40 KVA / 34 KW	1	E6-01
2	MANUAL TRANSFER SWITCH	208V, 400A, SOLID NEUTRAL, 2 POLE, NEMA 4X, UL LISTED	SQD	J03MTSA20400C00V	1	E6-01
3	MAIN PANEL	208Y/120V, 400A 42 CIRCUIT, 3PH, NEMA 4X, UL LISTED, TRIPABLE MAIN BREAKER	SQD	NQ442L4C	1	E6-01
4	400A BREAKER	MAIN BREAKER FOR MAIN PANEL (ITEM 3)	SQD	400A	1	E6-01
5	60A BREAKER	BREAKER FOR MAIN PANEL (ITEM 3)	SQD	60A	2	E6-01
6	35A BREAKER	BREAKER FOR MAIN PANEL (ITEM 3)	SQD	35A	3	E6-01
7	20A BREAKER	BREAKER FOR MAIN PANEL (ITEM 3)	SQD	20A	6	E6-01
8	MAIN METER	208Y/120V, 400A 42 CIRCUIT, 3PH, NEMA 4X, UL LISTED, TRIPABLE MAIN BREAKER	SQD	UTRS213B	1	E6-01
9	30A BREAKER	BREAKER FOR MAIN PANEL (ITEM 3)	SQD	30A	1	E6-01
10	SURGE PROTECTOR	277/480V, 105-220kA Surge Current Rating, UL1449 TYPE 1 LISTED, MULTI T-MOV	CITEL	MS200-277Y	1	E6-01
CT CABINET	CT CABINET	WAPA PROVIDED CTS	WAPA PROVIDED (VERIFY UTILITY AVAILABILITY)	WAPA PROVIDED (VERIFY UTILITY AVAILABILITY)	1	E6-01
WAPA	13800V-208Y/120V	FUTURE	WAPA	WAPA	1	E6-01

TRENCH SCHEDULE

TRENCH SECTION	FROM	TO	DISTANCE FEET	TRENCH WIDTH	TRENCH DEPTH	POWER CONDUITS	COMMUNICATION CONDUITS
							
	MAIN PANEL	TANK 5	70'	12"	27"	3-1/2", 3-1/2", 1-1/2", 1-1/2", 1-1/2", 1-1/2", 1"	1"



WIRE AND CONDUIT SCHEDULE

Wire Label	Trench Section	From	To	Distance (Feet)	Cable Length	Voltage	Amperage	Wire Size	Wire Amount	Wire Total (Feet)	Wire Size (GND)	Wire Amount	Wire Total (GND)	Conduit Size	Conduit Amount	Conduit Length
0	0	STUB UPS	MAIN SERVICE DISCONNECT VIA CT CABINET	84.23	<NONE>	208Y/120V	400	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	2.5	2	178.46
1	----	MAIN SERVICE DISCONNECT	ATS	1	21	208Y/120V	200	3/0	4	24	6	1	21	2.5	1	11
2	----	GENERATOR	ATS	3.74	23.74	208Y/120V	200	3/0	4	34.94	6	1	23.735	2.5	1	13.74
3	----	ATS	MAIN PANEL	1	21	208Y/120V	400	500	4	24	2	1	21	3.5	1	11
4	1	MAIN PANEL	TANK 1 MOTOR ENCLOSURE	92.85	112.85	208Y/120V	60	4	3	298.55	6	1	112.85	1.5	1	102.85
5	1	MAIN PANEL	TANK 2 MOTOR ENCLOSURE	78.04	98.04	208Y/120V	60	4	3	254.13	6	1	98.044	1.5	1	88.04
6	1	MAIN PANEL	TANK 3 MOTOR ENCLOSURE	63.5	83.5	208Y/120V	60	8	3	210.5	6	1	83.501	1.5	1	73.5
7	1	MAIN PANEL	TANK 4 MOTOR ENCLOSURE	55.35	75.35	208Y/120V	35	8	3	186.04	6	1	75.348	1.5	1	65.35
8	1	MAIN PANEL	TANK 5 MOTOR ENCLOSURE	42.86	62.86	208Y/120V	35	8	3	148.59	6	1	62.864	1.5	1	52.86
9	1	MAIN PANEL	WIRED SITE LIGHTING	62.4	82.4	120	20	12	2	144.8	12	1	82.401	1	1	72.4
10	1	GENERATOR	GATE (STUB UPS)	100	<NONE>	----	400	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	1	2	200

WIRE TOTALS	
500 MCM	24
3/0AWG	58.9400
4 AWG	552.6800
8 AWG	545.1300
12 AWG	148.5900
2 AWG GREEN	21.0000
6 AWG GREEN	477.3420
12 AWG GREEN	82.4010

CONDUIT TOTALS	
3.5"	11.0000
2.5"	203.2000
1.5"	382.6000
1"	272.4000

NOTES



FOR REFERENCE ONLY.
CONTRACTOR MUST VERIFY FIELD
CONDITIONS.

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Drawing

SCHEDULES

Area

SITE

Scale

NTS

E5-01

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PANEL LOAD SUMMARY																		
VOLTS/PHASE/WIRE:		PANEL SIZE:		MAIN SIZE/TYPE/MOUNTING:				CABINET:	MIN SCC:	FED FROM:								
120/208/3/4		400 A		400 A/MCB/SURFACE				---	65000	---								
CIRCUIT NO.	LOAD DESCRIPTION	OCPD SIZE	NO. POLES	CDTR. SIZE	PHASE LOAD VA			CDTR. SIZE	NO. POLES	OCPD SIZE	LOAD DESCRIPTION	CIRCUIT NO.						
					A	B	C											
1,3,5	GENERATOR	125	3	SEE ES WIRE SCHEDULES	13333	13333	13334	SEE ES WIRE SCHEDULES	3	400	PANEL MAIN PANEL	2-4-6						
					27190	27523	27525											
					40523	40856	40859											
CONNECTED LOAD					40523	40856	40859	122.2 KVA										
SUMMARY								NOTES: SUMMARY LOAD BALANCE <table><tr><td>A-B</td><td>B-C</td><td>C-A</td></tr><tr><td>99%</td><td>100%</td><td>99%</td></tr></table>					A-B	B-C	C-A	99%	100%	99%
A-B	B-C	C-A																
99%	100%	99%																
CATEGORY	CONNECTED (KVA)	DEMAND FACTOR (KVA)	EST. DEMAND (KVA)															
Generators	40.0	0.00	0.0															
Lighting (General)	0.8	1.00	0.8															
Equipment	5.4	1.00	5.4															
Motors	54.7	0.80	43.8															
Motors (Largest)	21.4	1.25	26.8															
TOTAL	122.2 KVA	339.3 AMPS	76.7 KVA	212.8 AMPS														

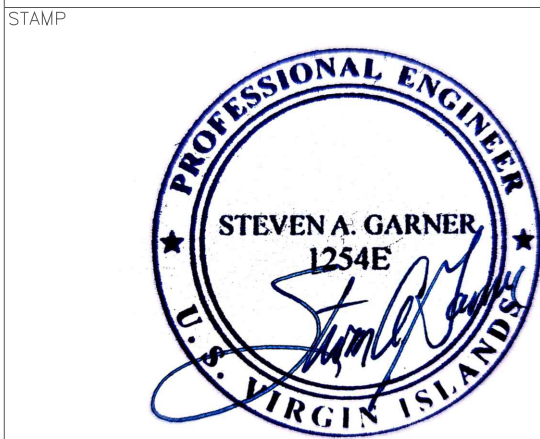
CONNECTED LOAD		LOAD CATEGORY
VA	AMPS	
40000	111.03	Generators
76650	212.77	*VARIES*
	339.3	

PANEL MAIN PANEL													
VOLTS/PHASE/WIRE:		PANEL SIZE:		MAIN SIZE/TYPE/MOUNTING:				CABINET:		MIN SCC:		FED FROM:	
120/208/3/4		400 A		400 A/MCB/SURFACE				NEMA 4X		65000		LOAD SUMMARY	
CIRCUIT NO.	LOAD DESCRIPTION	OCPD SIZE	NO. POLES	CDTR. SIZE	PHASE LOAD VA			CDTR. SIZE	NO. POLES	OCPD SIZE	LOAD DESCRIPTION	CIRCUIT NO.	
					A	B	C						
1,3,5	TANK 1 MOTOR 20000 GAL 20HP	60	3	*VARIES*	7133	7133	7134	3x4;-1x5;-	3	60	TANK 2 MOTOR 20000 GAL 20HP	2,4,6	
					3698	3699	3699						
					7133	7133	7134						
7,9,11	TANK 3 MOTOR 12000 GAL 10HP	35	3	*VARIES*	3698	3699	3699	3x8;-1x5;-	3	35	TANK 4 MOTOR 12000 GAL 10HP	8,10,12	
13,15,17	TANK 5 MOTOR 12000 GAL 10HP	35	3	3x8;-1x5;-	3698	3699	3699	3x12;1x12;1x12;-	1	20	MOTOR 1 CONTROL	14	
15	MOTOR 2 CONTROL	20	1	3x12;1x12;1x12;-	1080	0	0	3x12;1x12;1x12;-	1	20	MOTOR 3 CONTROL	16	
					0	1080	0	2;-					
					0	0	1080	2;-					
17	MOTOR 4 CONTROL	20	1	3x12;1x12;1x12;-	0	0	1080	3x12;1x12;1x12;-	1	20	MOTOR 5 CONTROL	18	
19	SITE WIRED LIGHTING	20	1	3x12;1x12;1x12;-	0	0	1080	<Undefined>	3	30	SPD CITESEL M2000 277Y	20,22,24	
					750	0	0	82.2 KVA					
					0	0	0						
CONNECTED LOAD					27190	27523	27525						
LOAD CATEGORY				CONN. LOAD (KVA)	DEMAND FACTOR (KVA)	EST. DEMAND (KVA)	NOTES: MAIN PANEL			LOAD BALANCE			
Lighting (General)				0.8	1.00	0.8				A-B 99%	B-C 100%	C-A 99%	
Equipment				5.4	1.00	5.4							
Motors				54.7	0.80	43.8							
Motors (Largest)				21.4	1.25	26.8							
TOTAL				82.2 KVA	228.3 AMPS	76.7 KVA	212.8 AMPS						

CONNECTED LOAD		LOAD CATEGORY
VA	AMPS	
21400	59.40	Motors
21400	59.40	Motors
11096	30.80	Motors
11096	30.80	Motors
11096	30.80	Motors
1080	9.00	Equipment
1080	9.00	Equipment
1080	9.00	Equipment
1080	9.00	Equipment
1080	9.00	Equipment
750	6.25	Lighting (General)
0	0.00	<Undefined>
	228.3	

NOTES

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Drawing

Area

Scale

Sheet

PANEL SCHEDULES

SITE

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E5-02

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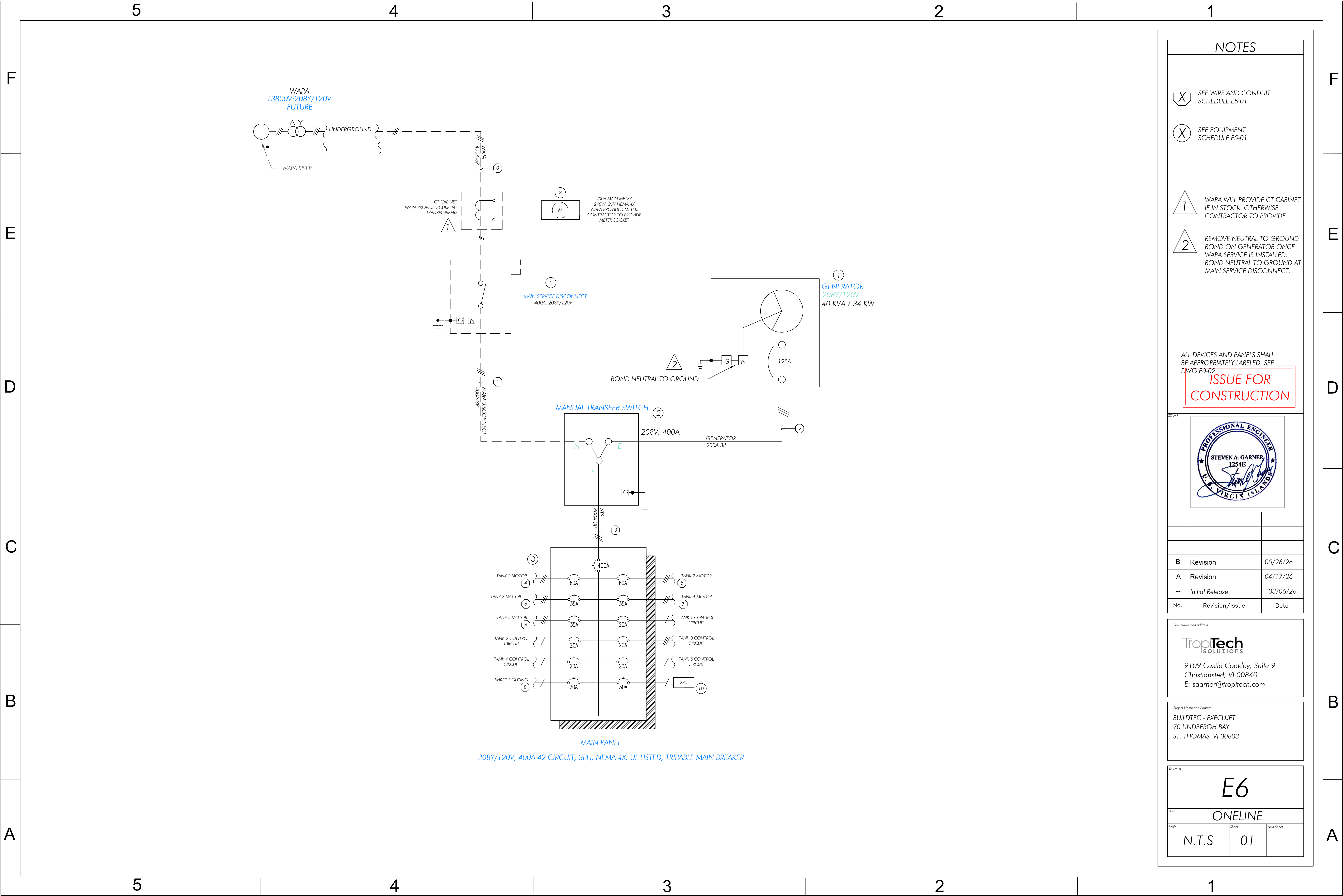
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NOTES

X

SEE WIRE AND CONDUIT SCHEDULE E5-01

X

SEE EQUIPMENT SCHEDULE E5-01

1

WAPA WILL PROVIDE CT CABINET IF IN STOCK. OTHERWISE CONTRACTOR TO PROVIDE

2

REMOVE NEUTRAL TO GROUND BOND ON GENERATOR ONCE WAPA SERVICE IS INSTALLED. BOND NEUTRAL TO GROUND AT MAIN SERVICE DISCONNECT.

ALL DEVICES AND PANELS SHALL BE APPROPRIATELY LABELED. SEE DWG E0-02

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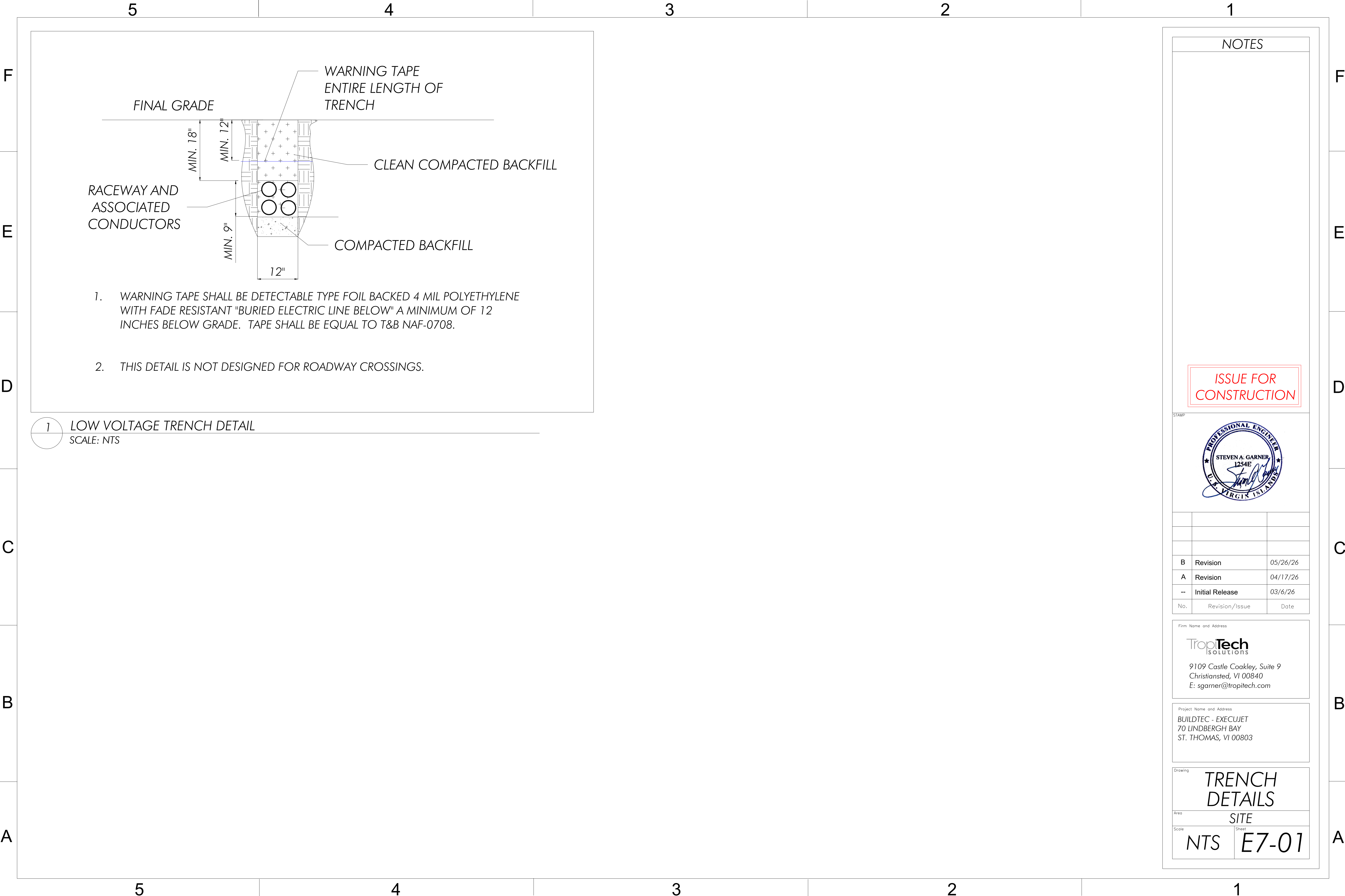
BUILDTEC - EXECUJET
70 LINDBERGH BAY
ST. THOMAS, VI 00803

Drawing

E6

Area

ONELINE



NOTES

ISSUE FOR CONSTRUCTION

STAMP

B	Revision	05/26/26
A	Revision	04/17/26
--	Initial Release	03/6/26
No.	Revision/Issue	Date

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Drawing

TRENCH DETAILS

Area

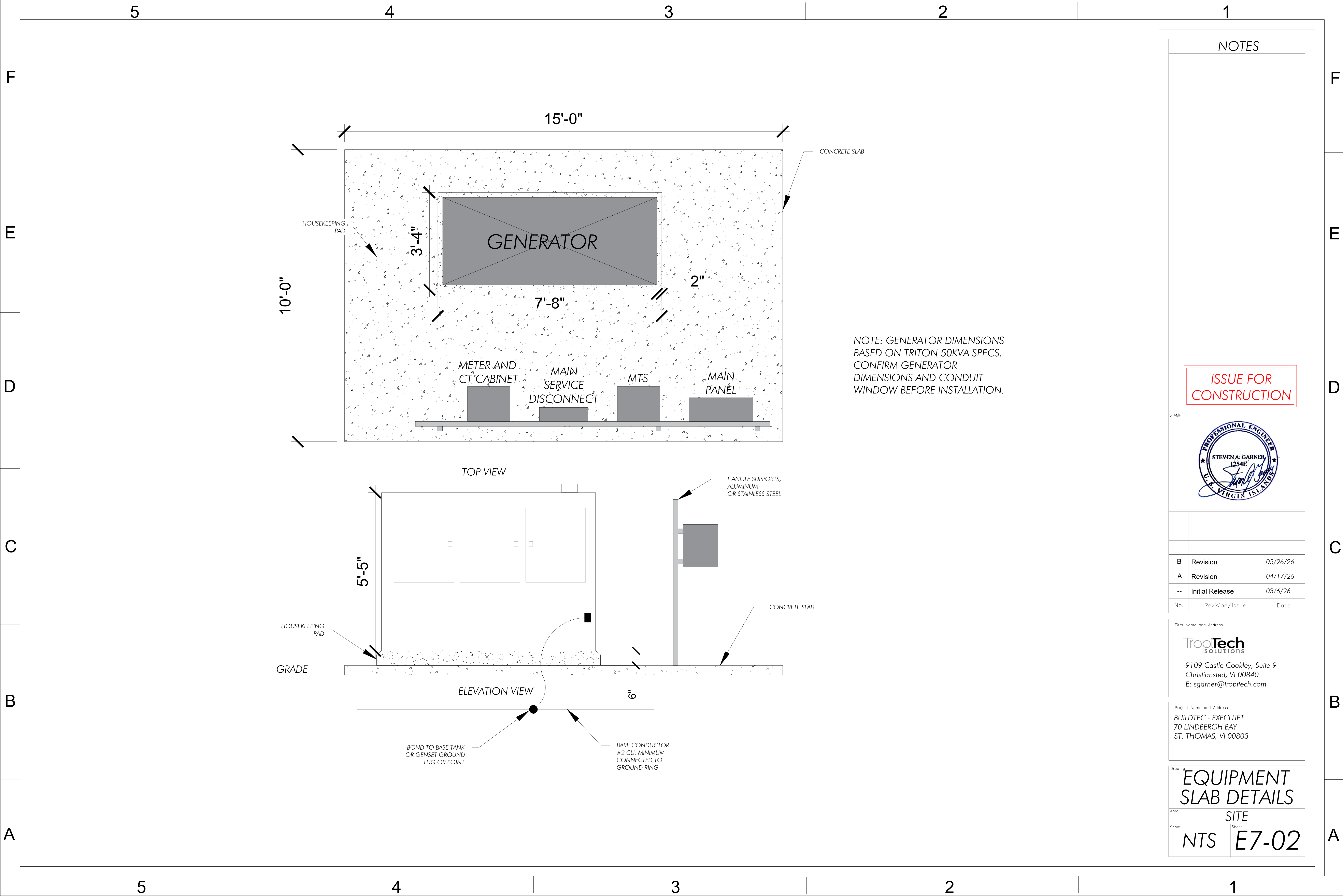
SITE

Scale

NTS

Sheet

E7-01



NOTES

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Drawing

EQUIPMENT SLAB DETAILS

Area

SITE

Scale

NTS

Sheet

E7-02

5

4

3

2

1

F

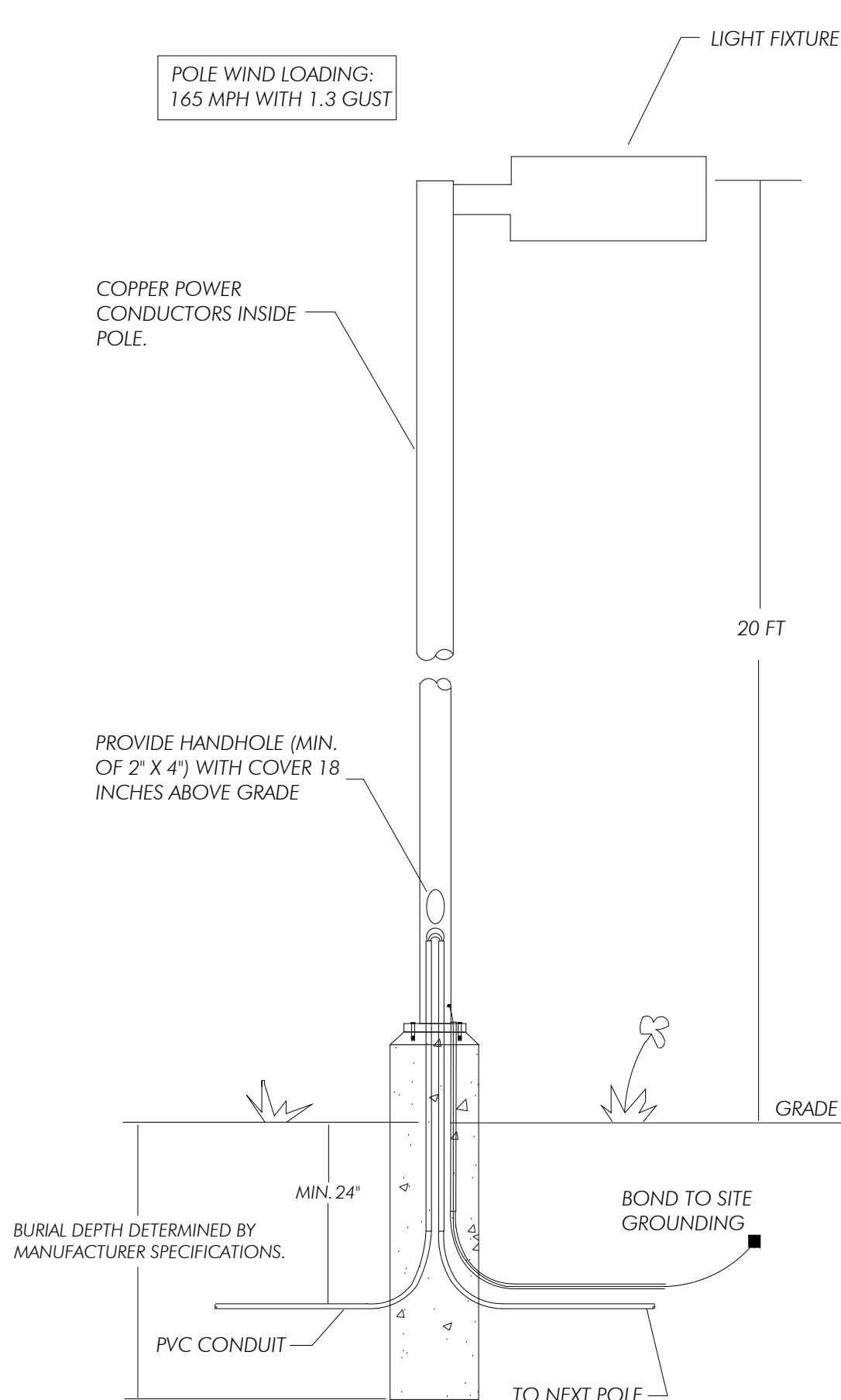
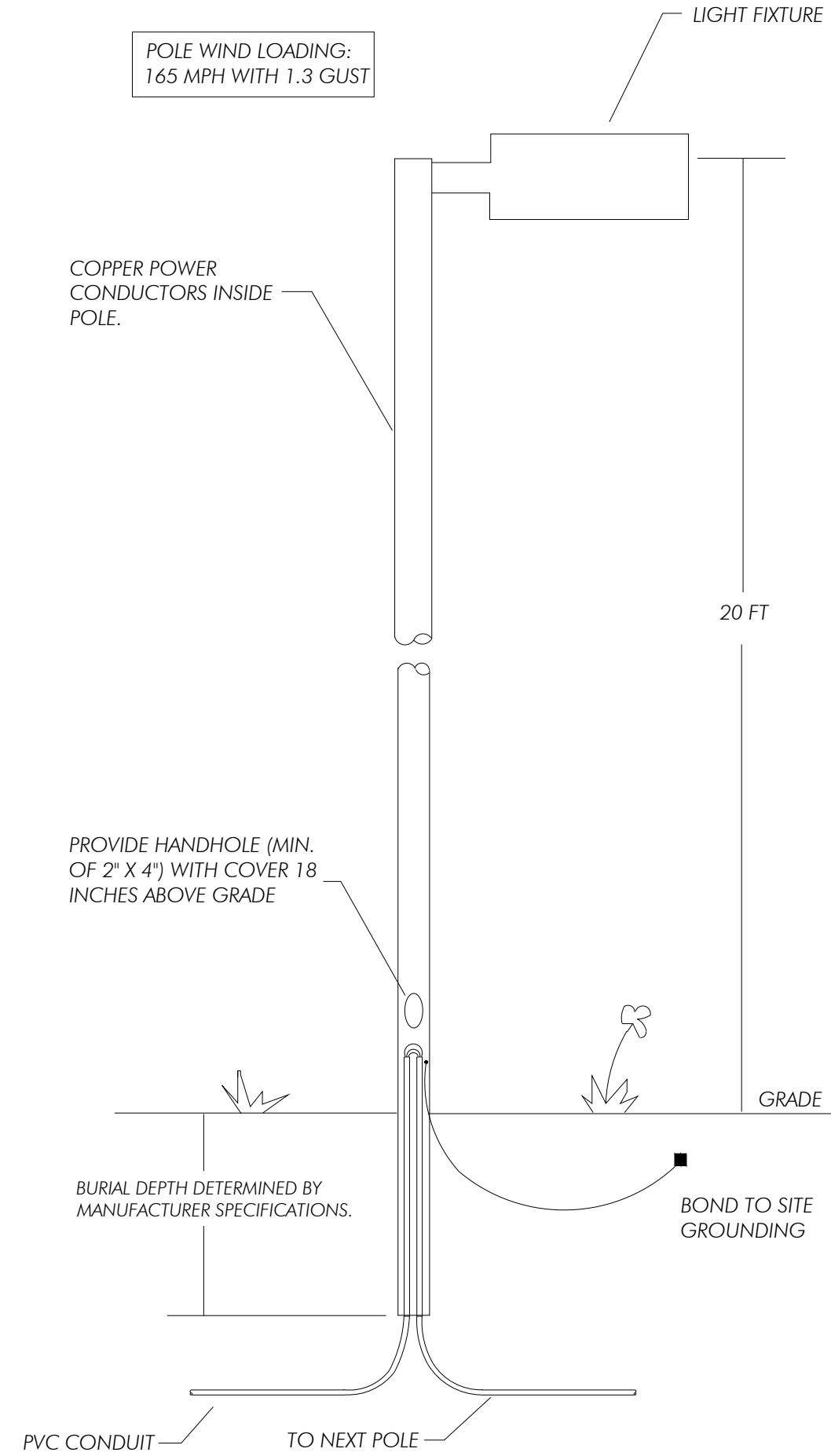
E

D

C

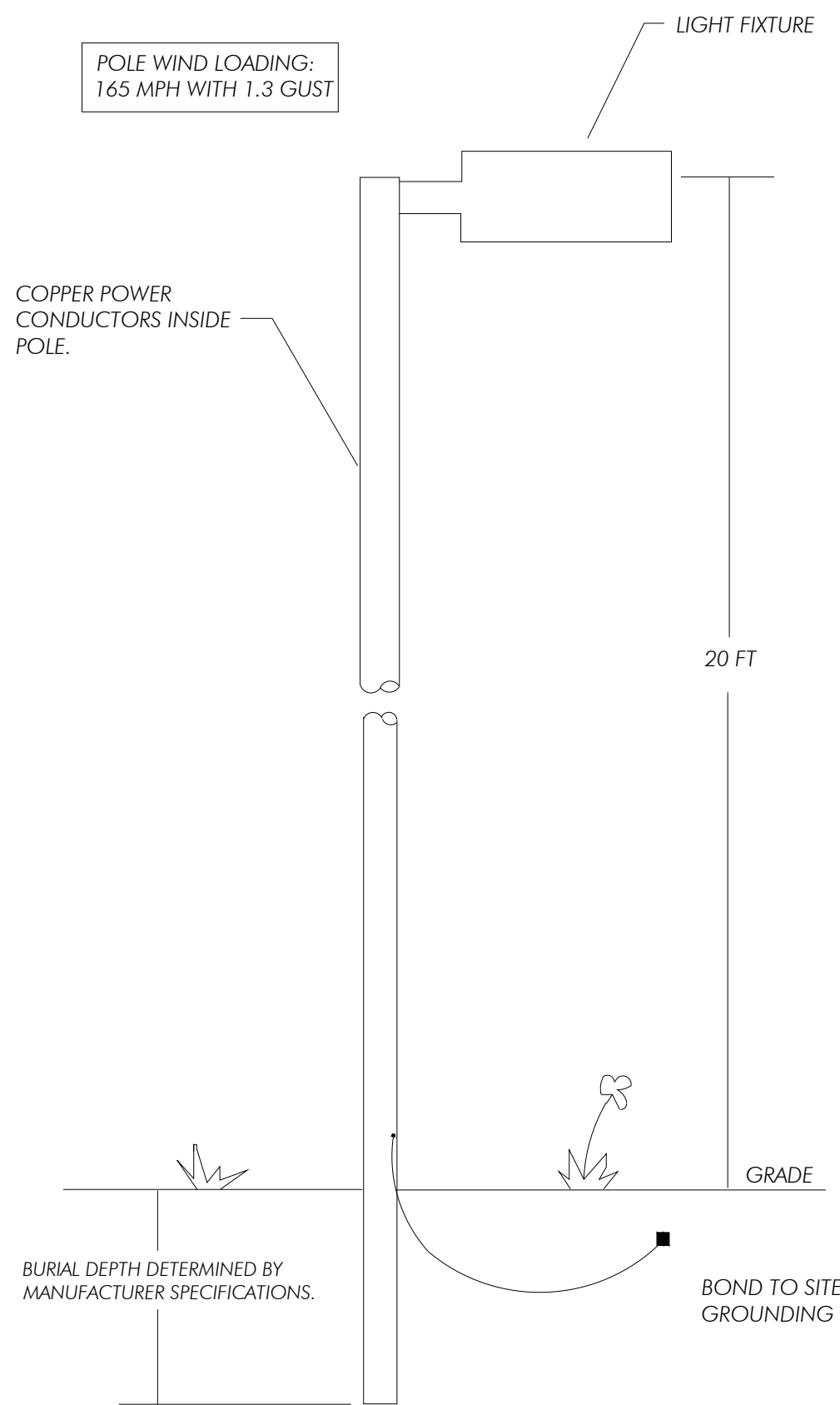
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A



1 LIGHTING POLE DETAILS - DIRECT BURIAL
SCALE: NTS

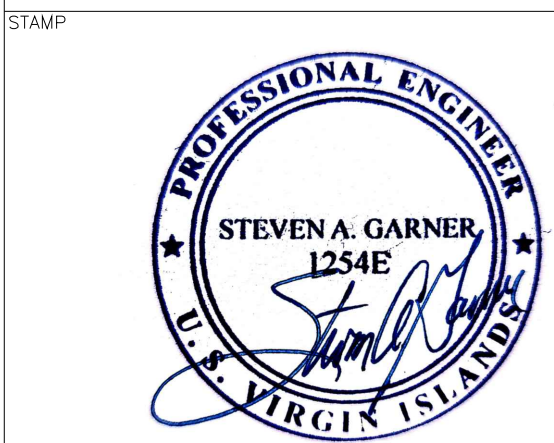
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SCALE: NTS



3 SOLAR LIGHTING DETAILS
SCALE: NTS

NOTES

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CONSTRUCTION

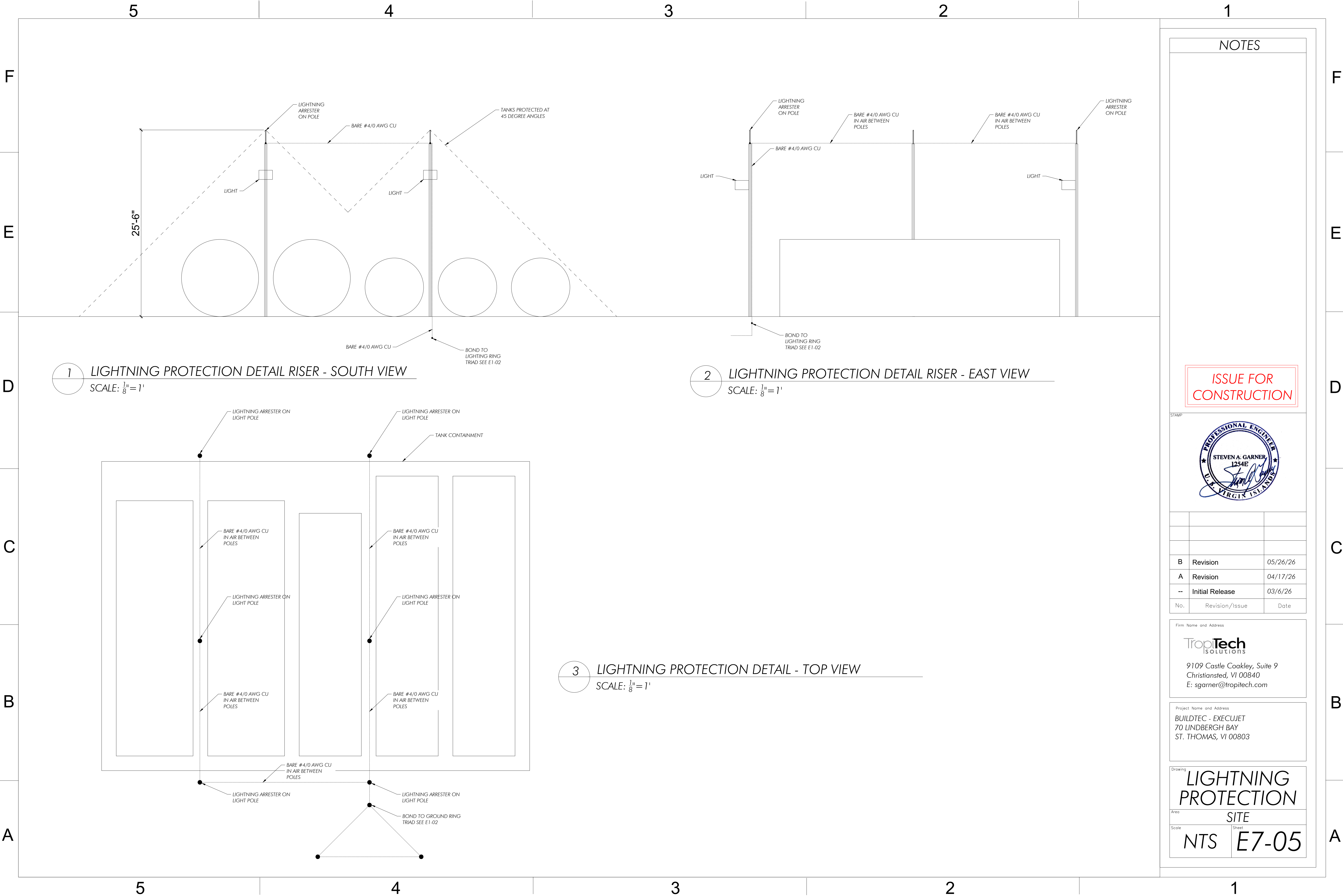


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Drawing
**LIGHTING
DETAILS**
Area
SITE
Scale
NTS
Sheet
E7-04



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Drawing

LIGHTNING PROTECTION

Area	Sheet
NTS	E7-05

5

4

3

2

1

F

F

E

E

D

D

C

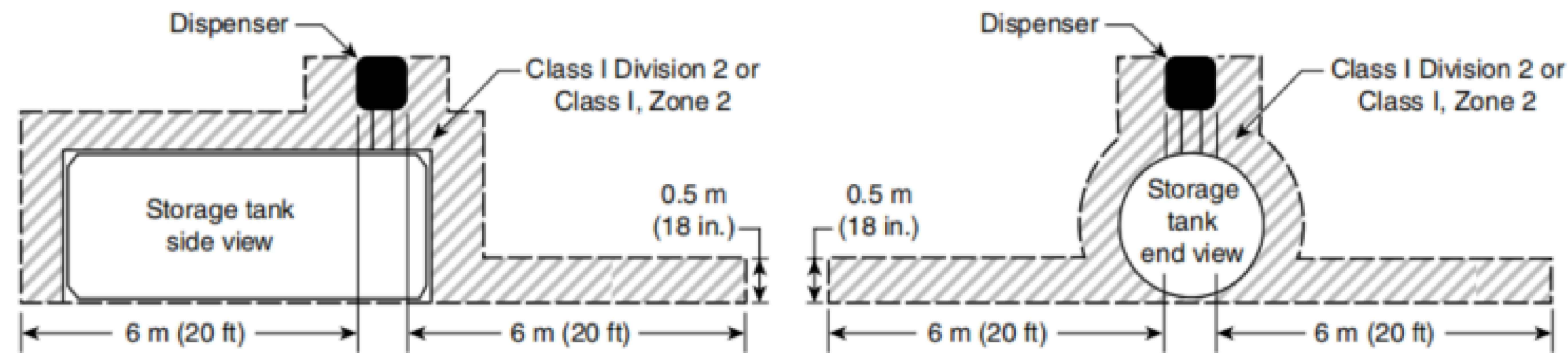
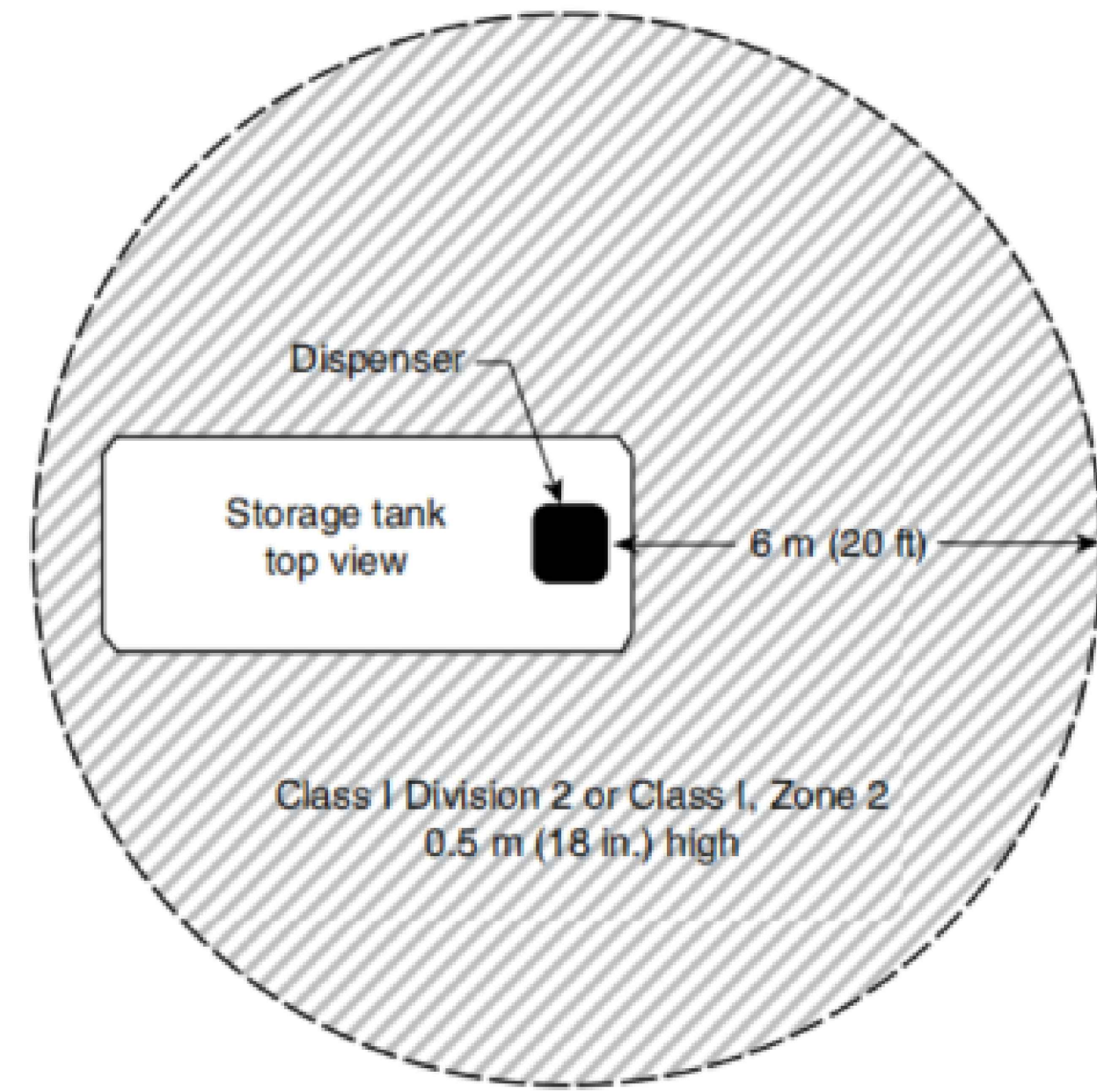
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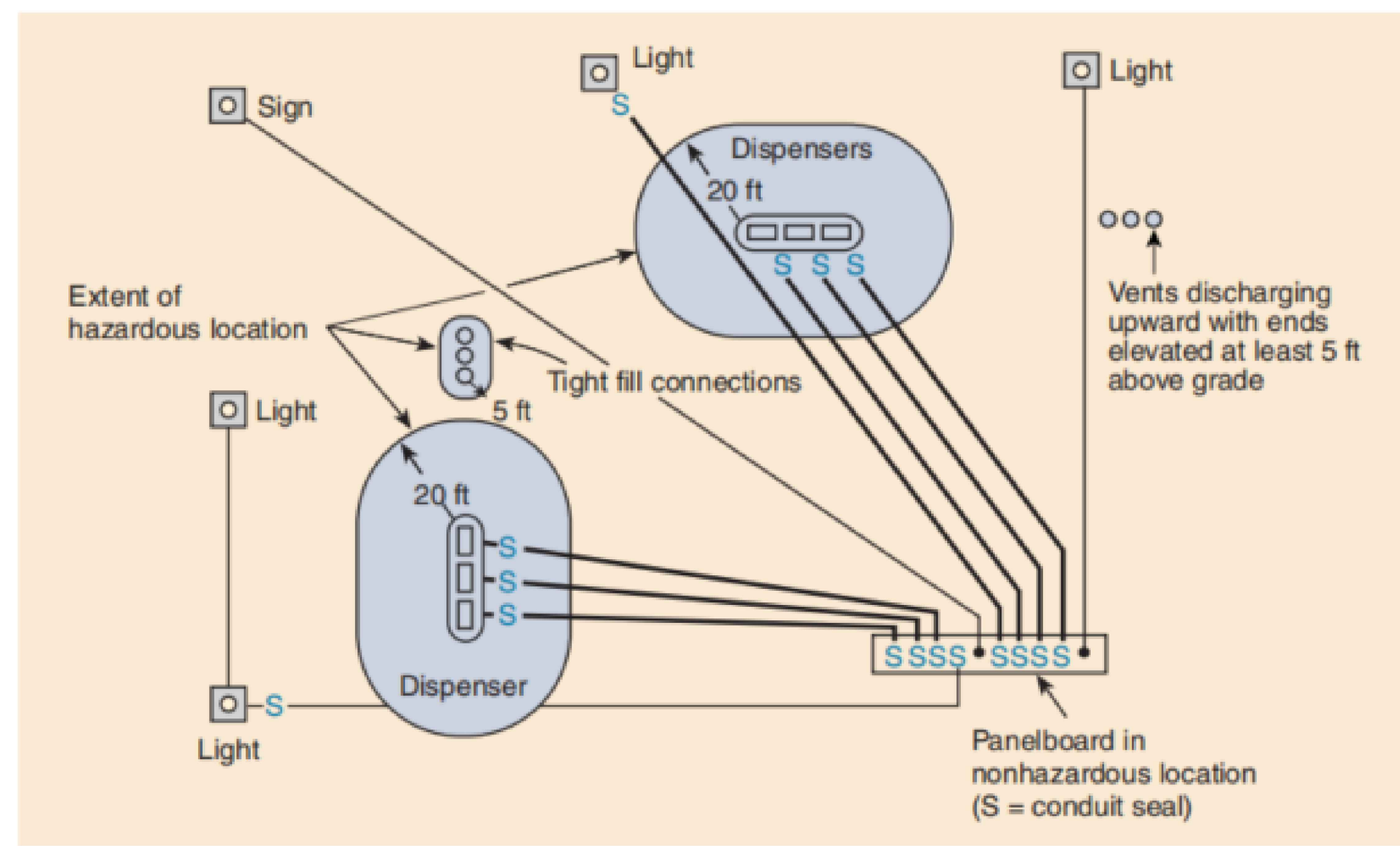
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A

A



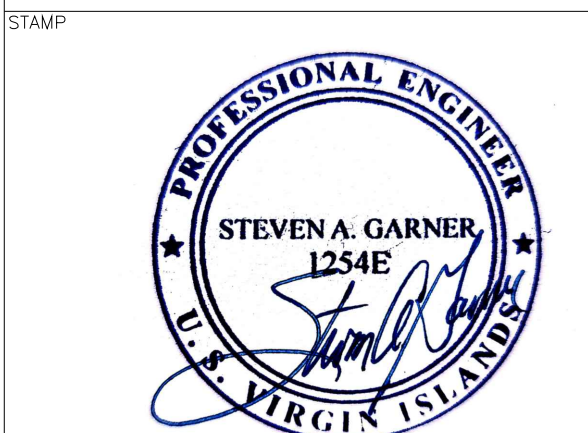
1 CLASS 1 - DIV 2 BOUNDARY DETAILS
SCALE: NTS



2 CLASS 1 - DIV 2 CONDUIT SEAL REQUIREMENTS
SCALE: NTS

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ISSUE FOR CONSTRUCTION



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Drawing
**CLASS 1 -DIV 2
DETAIL**
Area
SITE
Scale
NTS
Sheet
E7-06